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INTERIM TECHNICAL REPORT

ASCENT TRAJECTORY DISPERSION ANALYSIS

CONTRACT NO. NAS8-34431

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JANUARY 1984

PREPARED FOR:

GEORGE C. MARSHALL SPACE FLIGHT CENTER
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
MARSHALL SPACE FLIGHT CENTER, ALABAMA

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LIST OF ABBREVIATIONS

AHI	aerodynamic heating indicator
AOA	abort-once-around
ET	external tank
ETR	Eastern Test Range
FPL	full power level
GN&C	guidance, navigation, and control
IMU	inertial measurement unit
MECO	main engine cutoff
MPL	minimum power level
MPS	main propulsion system
MR	mixture ratio
MSFC	Marshall Space Flight Center
NASA	National Aeronautics and Space Administration
OMS	orbit maneuver system
RCS	reaction control system
RPL	rated power level
RSS	root-sum square
RTLS	return-to-launch-site
6-DOF	six-degree-of-freedom
SOFI	spray-on foam insulation
SRB	solid rocket booster
SRM	solid rocket motor
SSME	space shuttle main engine
WTR	Western Test Range

Units of Measure

deg	degrees
°F	degrees Farenheit
fps	feet per second
ft	feet
ft/s	feet per second
g's	acceleration per sea level gravity
in	inches
in^2	inches squared
kft	kilofeet
lbs	pounds
lbs/ft	pounds per foot
lbs/s	pounds per second
min	minutes
ms	milliseconds
nm	nautical miles
%/s	percent per second
psf	pounds per square foot
psi	pounds per square inch
s	seconds

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1. INTRODUCTION

This interim report documents the results of a Space Transportation System ascent trajectory dispersion analysis performed by Dynetics, Inc., under contract to the Marshall Space Flight Center (MSFC) of the National Aeronautics and Space Administration (NASA). The purpose of this dispersion analysis is to provide critical trajectory parameter values useful for assessing the adequacy of the "lightweight" external tank insulation design. The "lightweight" external tank is a developmental subsystem to be used when the Space Shuttle becomes operational.

This analysis has been conducted using two of the critical missions specified for the Space Transportation System. The first mission, referred to as Mission 1, is a 28.5° inclination trajectory launched from the Eastern Test Range (ETR). For purposes of selecting a critical heating mission, an August launch has been assumed. The second mission, Mission 4, is a Western Test Range (WTR) trajectory launched into a 98° orbital inclination. A December launch has been selected for heating environment severity. Using these two missions, separate analyses have been performed which have consisted of the following steps:

1. Nominal trajectories have been simulated under the conditions as specified by baseline reference mission guidelines.

2. Dispersion trajectories were simulated using predetermined parametric variations which spanned the dispersion limits. Dispersion parameters were selected to represent system-related error sources stemming from propulsion uncertainties, aerodynamic errors, mass property inaccuracies, and guidance, navigation and control (GN&C) errors.

3. Requirements for a system-related composite trajectory were determined by a root-sum-square (RSS) analysis of the positive derivations between values of the aerodynamic heating indicator (AHI) generated by the dispersion and nominal trajectories.

4. Using the RSS assessment as a guideline, the system related composite trajectory was simulated by combinations of dispersion parameters which represented major contributors.

5. An assessment of environmental perturbations via a RSS analysis was made by the combination of $\pm 2\sigma$ atmospheric density variation and 95% directional design wind dispersions. Unique wind directions were chosen to reflect critical heating conditions.

6. Maximum aerodynamic heating trajectories were simulated by variation of dispersion parameters which would emulate the summation of the system-related RSS and environmental RSS values of AHI. Several maximum aerodynamic heating trajectories were simulated consistent with the directional winds used in the environmental analysis.

Trajectory parameters associated with the maximum aerodynamic heating trajectory cases, the system composite trajectories, and the RSS analysis were delivered as computer files to the Government. Files associated with Missions 1 and 4 are resident on the MSFC Univac computer system.

The following report provides a summary of the analysis and is subdivided in the same manner as the analysis steps. Section 2 describes the nominal trajectory requirements for Missions 1 and 4. These requirements are based on inputs provided by Rockwell International and MSFC. Section 3 summarizes the parameters used in the dispersion analysis. Section 4 discusses the formulation of the system composite trajectories and the maximum aerodynamic heating trajectories. Several appendices are provided which present tabulated results from the various analyses, plots of critical parameters, a description of the RSS analysis computer model, and a discussion of interpretations applicable to the computer output files mentioned above.

2. MISSION 1 AND MISSION 4 NOMINAL TRAJECTORY REQUIREMENTS

Presented in Appendices A and B are the input requirements for the baseline nominal trajectory simulation of Mission 1 and Mission 4, respectively. This input was used in the MSFC resident six-degree-of-freedom (6-DOF) STAR-6D computer simulation. Verification of the baseline trajectories was performed by detailed comparison of trajectory parameters to similar trajectories developed by Rockwell International.

3. SYSTEM DISPERSION PARAMETERS

Tables 3-1 through 3-4 provide a summary of the parameters that were used in the system dispersion analysis. In coordination with the AFSIG panel, the dispersions represent a 99% percentile (2.33σ) variation for SRM and aerodynamic perturbations and 70% of 2.33σ for all other perturbations. Using these dispersion values, simulations were made by the individual biasing of these parameters. Thus, each dispersion parameter was treated as an independent variation. Approximately 60 individual trajectories were simulated for each mission and data from these simulations were stored on computer files.

Appendices F and G provide time ordered histories of the AHI parameter, angle of attack, and sideslip angle as a function of the dispersion variations for Missions 1 and 4. The data in these appendices are presented as increments between the value obtained from the dispersion simulation and the nominal value (shown as the second column of these tables). The notation at the right upper corner of each table gives the name of the parameter, i.e., AHI, and the sign of the dispersion value increment used in the generation of the trajectory. The table identification numbers shown in Tables 3-1 through 3-4 correspond to the table headings of the tables in the Appendices.

Table 3-1. Propulsion Perturbations

Parameter	Dispersion Value	Table Identification Number **	Comments/ Assumptions
SRM Webb Action Time (WAT)*	2.87%	1	Constant specific impulse
SRM Terminal Thrust Mismatch*	-	2	See Appendix C
SRM Specific Impulse*	0.39%	3	Constant flowrate
SRM Steady-State Thrust Mismatch*	65,240 lbf	4	Constant flowrate
SRM Specific Impulse Mismatch*	0.78%	5	Constant flowrate, one SRM low by ΔIsp/2, other SRM high by ΔIsp/2
SRM Thrust Vector Control	0.2856% left, right (tilt, rock) per motor	6 (pitch) 7 (yaw)	See Appendix C
SSME Vacuum Thrust	± 3262 lbf $\sqrt{\text{no. of engines}}$	8	Constant specific impulse
SSME Vacuum Specific Impulse	1.25 s x $\frac{\sqrt{\text{no. of engines}}}{\text{no. of engines}}$	9	Constant thrust
SSME Thrust Vector Misalignment	0.5745° (pitch) 0.336° (yaw)	10 (pitch) 11 (yaw)	See Appendix C

**See Appendices F and G
*These dispersions reflect $\pm 2.33\ \sigma$ dispersion, others are 70% of 2.33 σ

Table 3-2. Aero/Environment Perturbations

Parameter	Dispersion Value	Table Identification Number I	Comments/ Assumptions
Aero Coefficients Forces and Moments (all axes)	±2.33 σ	1 Axial force 2 Normal force 3 Pitch moment 4 Side force 5 Yaw moment 6 Roll moment 7 Base force	Included in MSFC resident aerodynamic data base
Atmosphere	±2 σ density	8 (+) Density (-) Density	Not used as system dispersion. Combined with wind dispersion to form environmental dispersion.

*See Appendices F and G

Table 3-3. Mass Property Perturbations

Parameter	Dispersion Value	Table Identification Number*	Comments/ Assumptions
External Tank (ET) Propelland Weight	LOX = 0.294% LH_2 = 0.375%	1	Based on total ET loaded propellant with LOX = 6 LH_2 (fuel bias corrected). Percentage errors are root-sum-squared (RSS) to obtain total perturbation.
SRM Propellant Weight	0.16%	2	Based on total propellant loaded (two motors) of 2,234,322 lbs.
SRM Inert Weight	--	3	Not used (does not appreciably affect aero heating).
2nd Stage Inert Weight	--	4	Not used (does not appreciably affect aero heating).
Integrated Vehicle Center of Gravity Location	Variable, function of stage weight	5 (1st stage longitudinal) 6 (1st stage lateral) 7 (1st stage normal) 8 (2nd stage longitudinal) 9 (2nd stage normal)	See Appendix C

*See Appendices F and G

Table 3-4. GN&C Perturbations

Parameter	Dispersion Value	Table Identification Number*	Comments/ Assumptions
Accelerometer Errors (normal, lateral)	Accuracy: Z = 0.0185 g's (normal) Y = 0.0098 g's (lateral) Alignment: Z = 0.1566° (normal) Y = 0.2403° (lateral)	1 (normal) 1 (lateral)	Applies to the "load relief" portion of 1st stage flight (see Appendix C).
Rate Gyro Assembly (RGA) Error	Drift: Z = Y = 0.085°/s Alignment: Z = Y = 0.4045°	3 (normal) 4 (lateral)	See Appendix C
IMU Platform Error	X = Y = Z = 0.2718°	5 (pitch) 6 (yaw) 7 (roll)	Applied as a bias to the reference (θ, ψ versus V_{REL}) table; roll error is neglected.
MECO Targeting Errors	Trajectory type dependent	8	See Appendix C

*See Appendices F and G

4. FORMULATION OF MAXIMUM AERODYNAMIC HEATING TRAJECTORIES

The methodology used to define the maximum aerodynamic heating trajectories for the Mission 1 and Mission 4 cases is a multistep process which combines system-related and environmental dispersions. After defining the system-related dispersions of Section 3, the first step of the process was to define a system composite trajectory. The system composite trajectory is defined as a trajectory which emulates an AHI time history determined by the summation of the nominal AHI history and the positive RSS AHI history for the system dispersions. The simulation of the system composite trajectory requires combining mixtures of dispersion parameters in such a manner to match the summed AHI history. Table 4-1 identifies the combinations of parameters that were used to define the system composite trajectories for the Mission 1 and Mission 4 cases. Figures 4-1 and 4-2 present plots of AHI versus time which represent the nominal trajectory, the plus and minus RSS derivation about the nominal, and the system composite trajectory for the Mission 1 and Mission 4 cases, respectively. In this analysis, the comparative matching was made with respect to the AHI parameter only and therefore does not necessarily result in being within or upon the dispersion limits of other parameters. Figures 4-3 through 4-12 provide plots of several critical parameters plotted in the same manner as AHI.

Table 4-1. Composite Parameters

Mission 1	Mission 4
+Pitch Accelerometer (70% of 2.33 σ)	+Pitch Accelerometer (70% of 2.33 σ)
-SRB Thrust Pitch Misalignment (70% of 2.33 σ)	-SRB Thrust Pitch Misalignment (70% of 2.33 σ)
	+Pitching Moment Coefficient (2.33 σ)

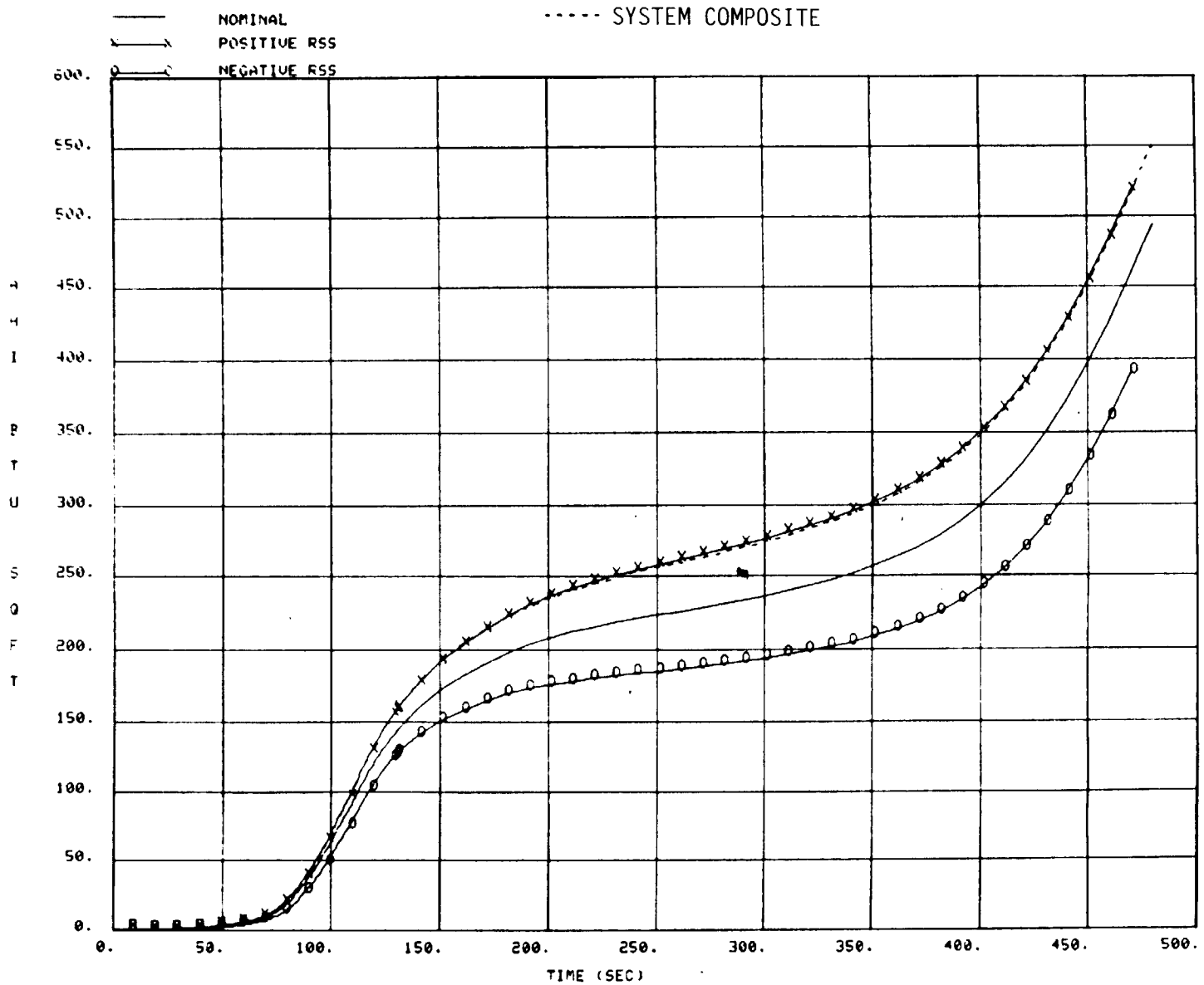

Figure 4-1. System Composite Trajectory for Mission 1

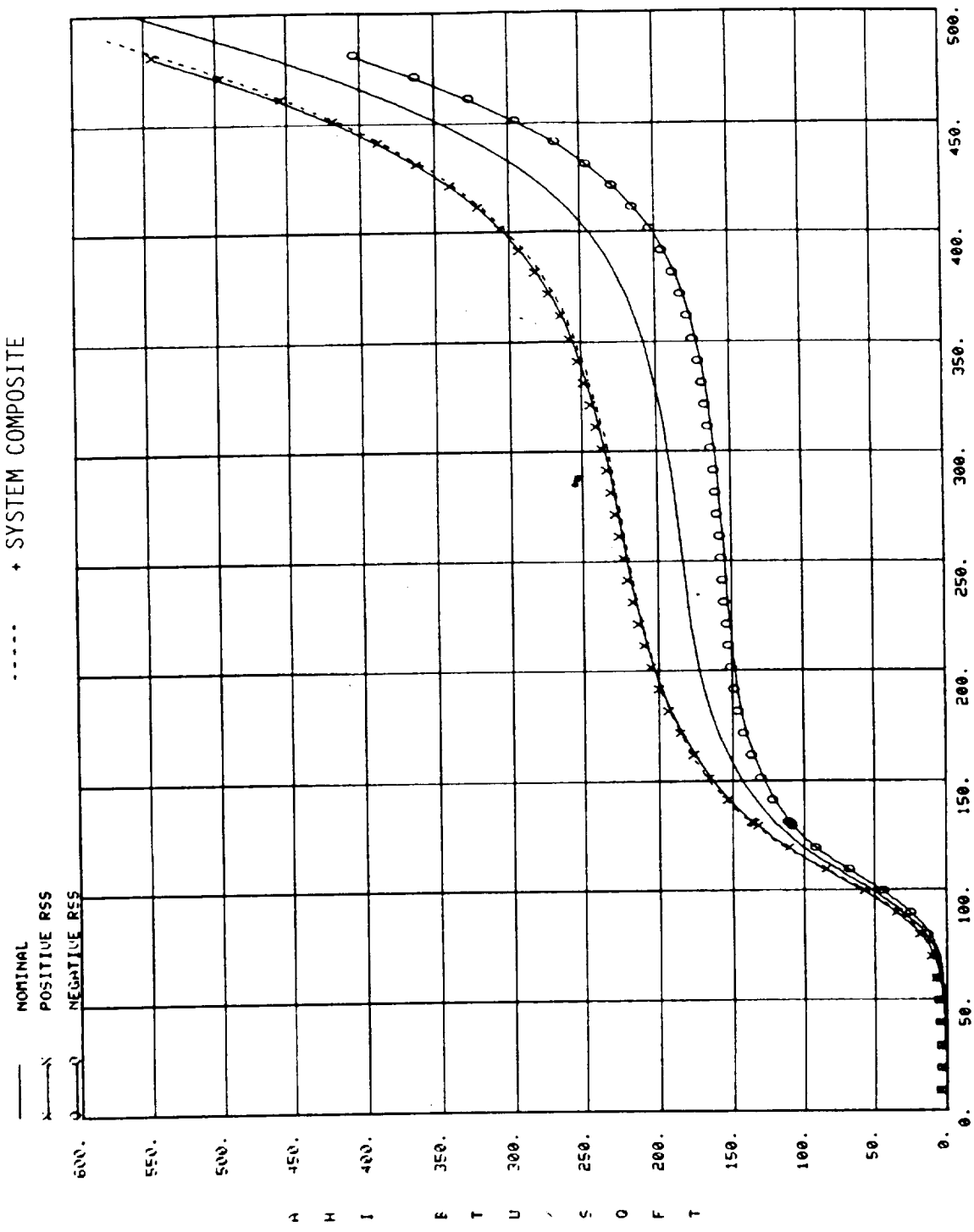

Figure 4-2. System Composite Trajectory for Mission 4

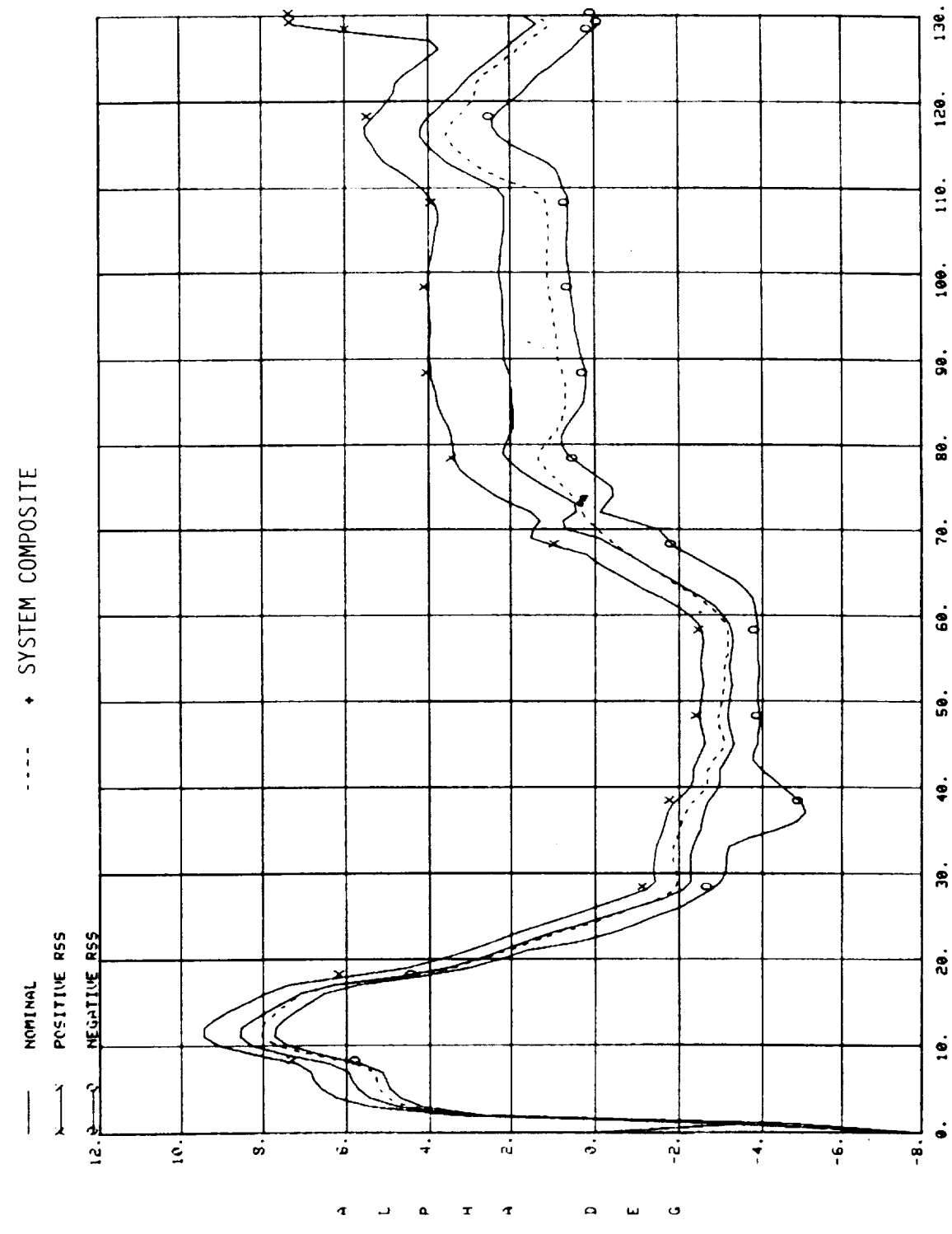

Figure 4-3. Mission 1 System Composite Angle of Attack History Comparison

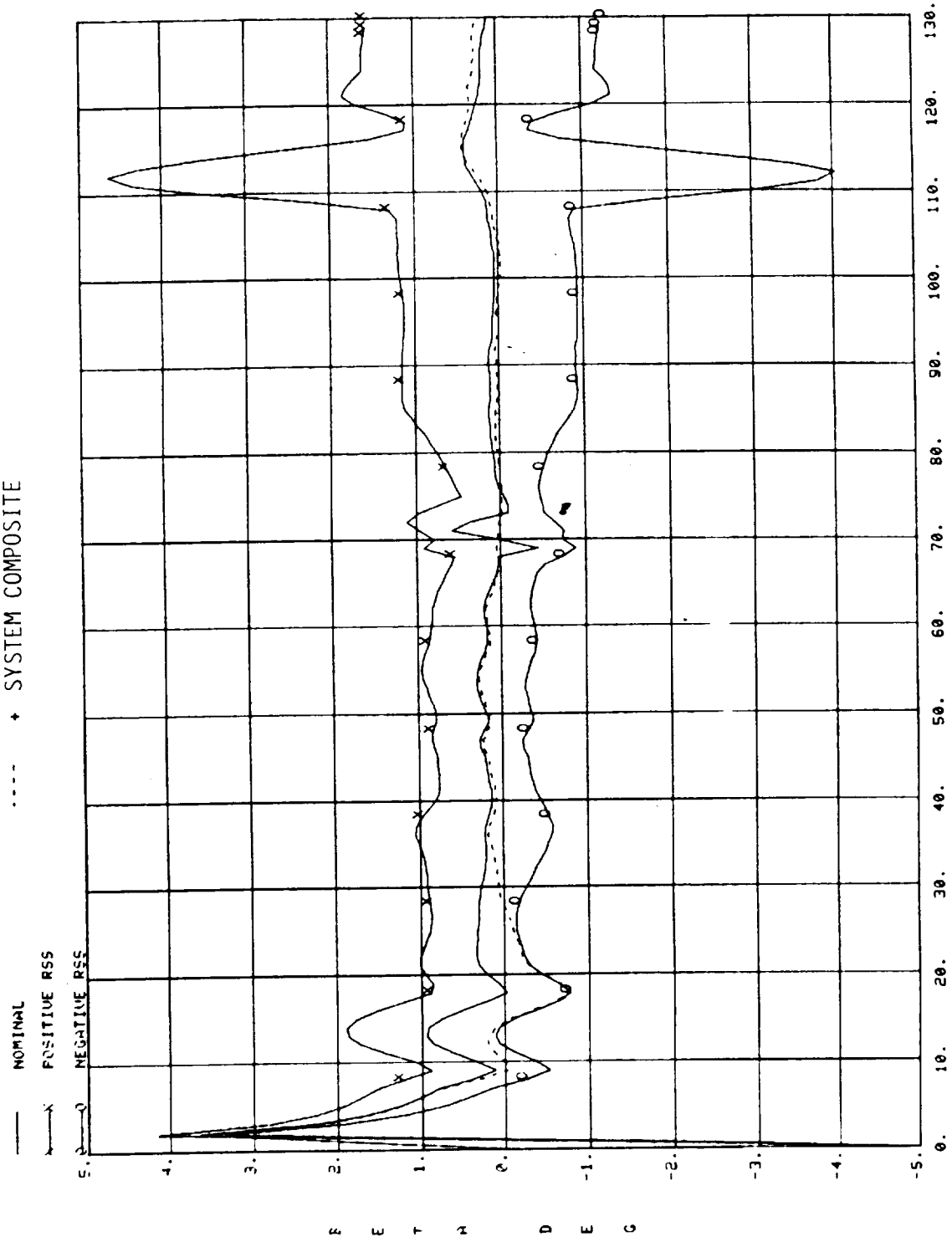

Figure 4-4. Mission 1 System Composite Sideslip Angle History Comparison

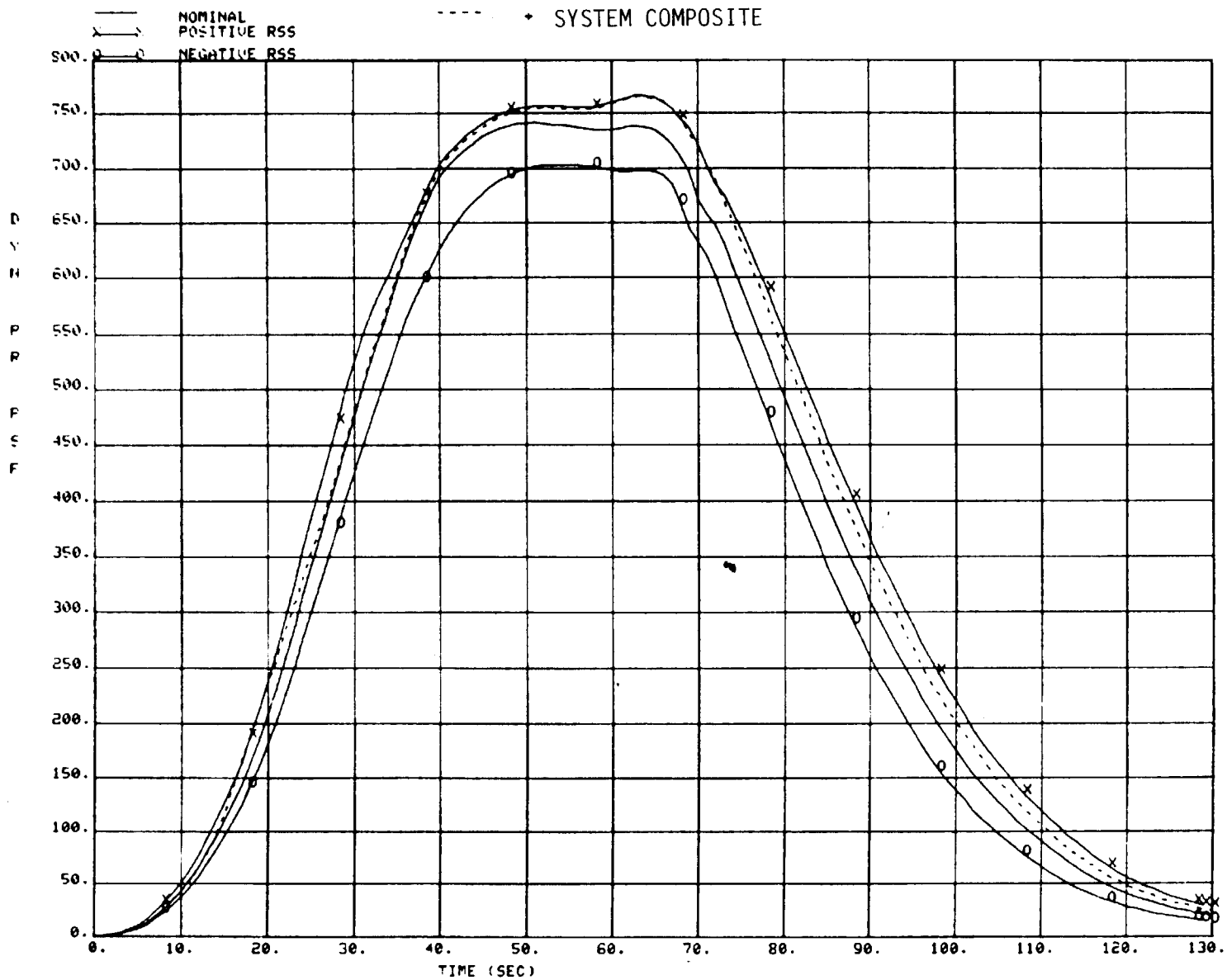

Figure 4-5. Mission 1 System Composite Dynamic Pressure History Comparison

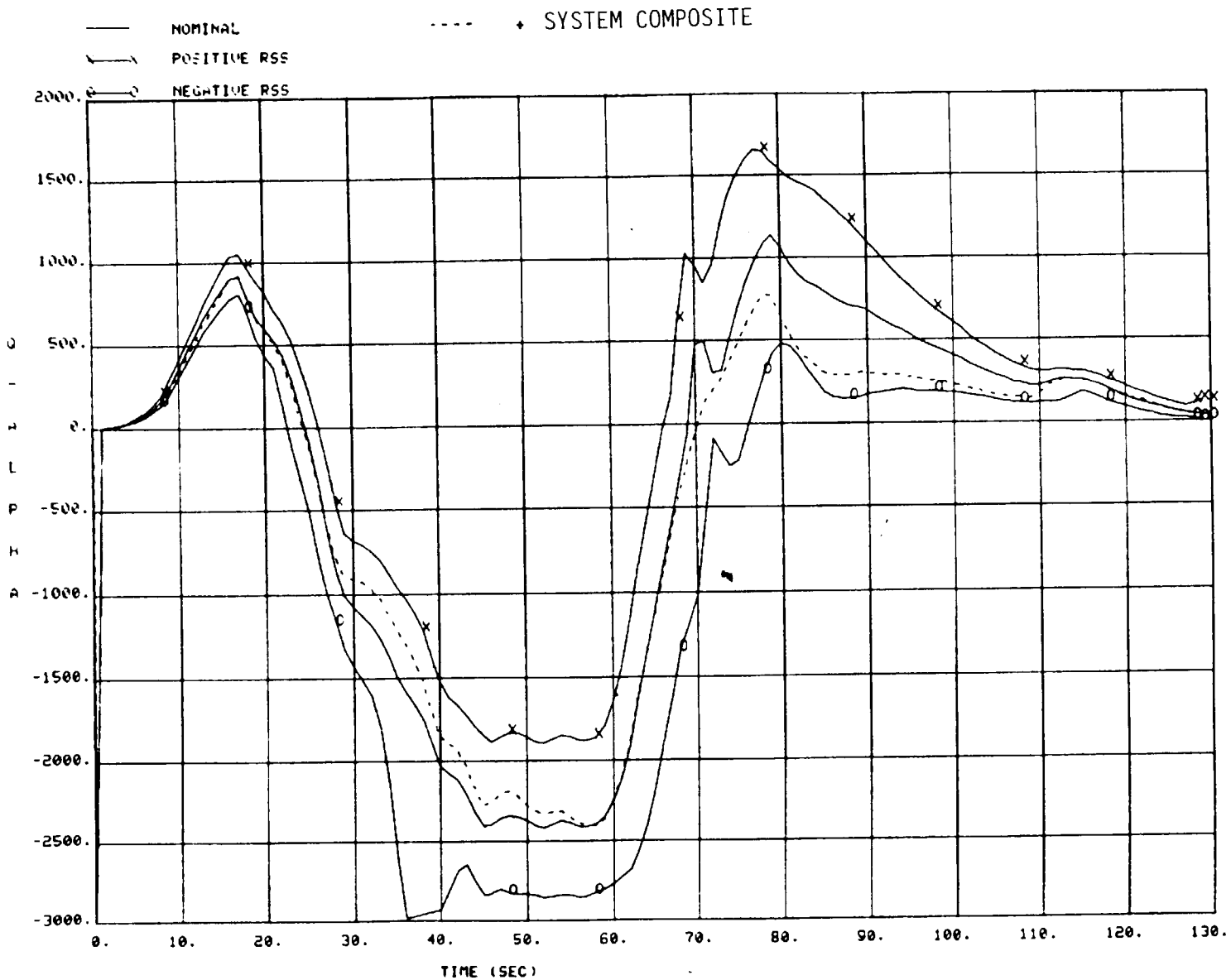

Figure 4-6. Mission 1 System Composite Q-Alpha History Comparison

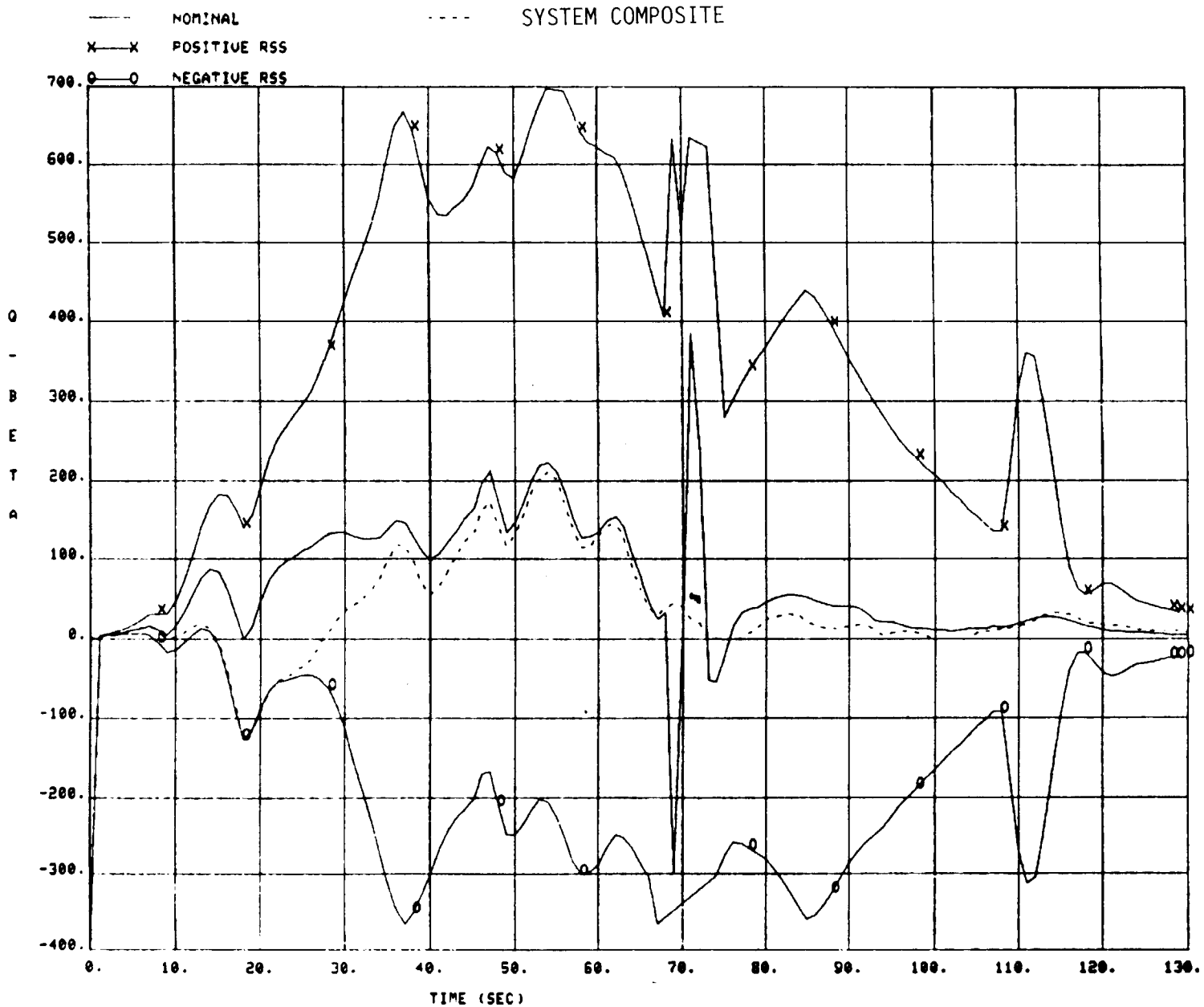

Figure 4-7. Mission 1 System Composite Q-Beta History Comparison

Figure 4-8. Mission 4 System Composite Angle of Attack History Comparison

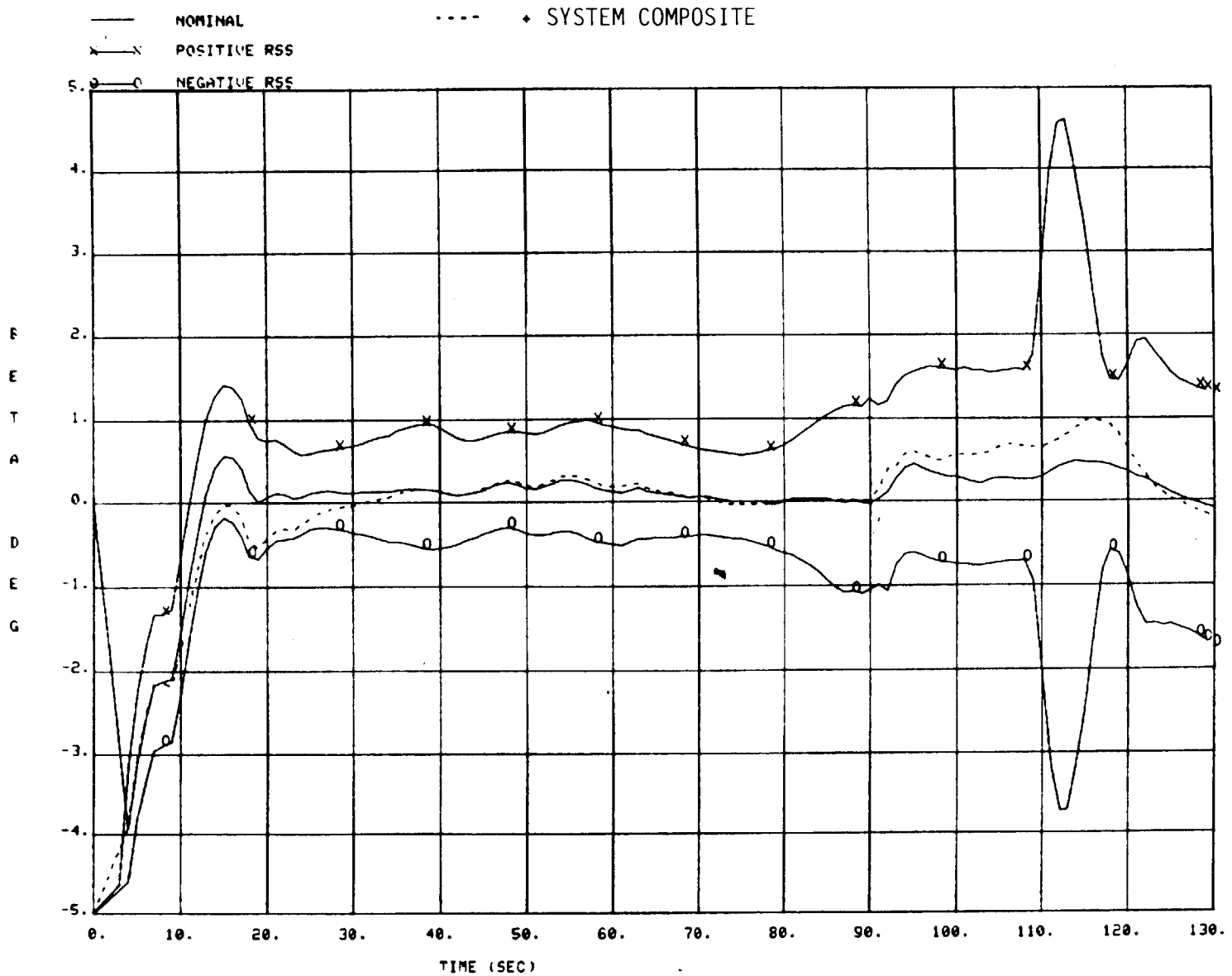

Figure 4-9. Mission 4 System Composite Sideslip Angle History Comparison

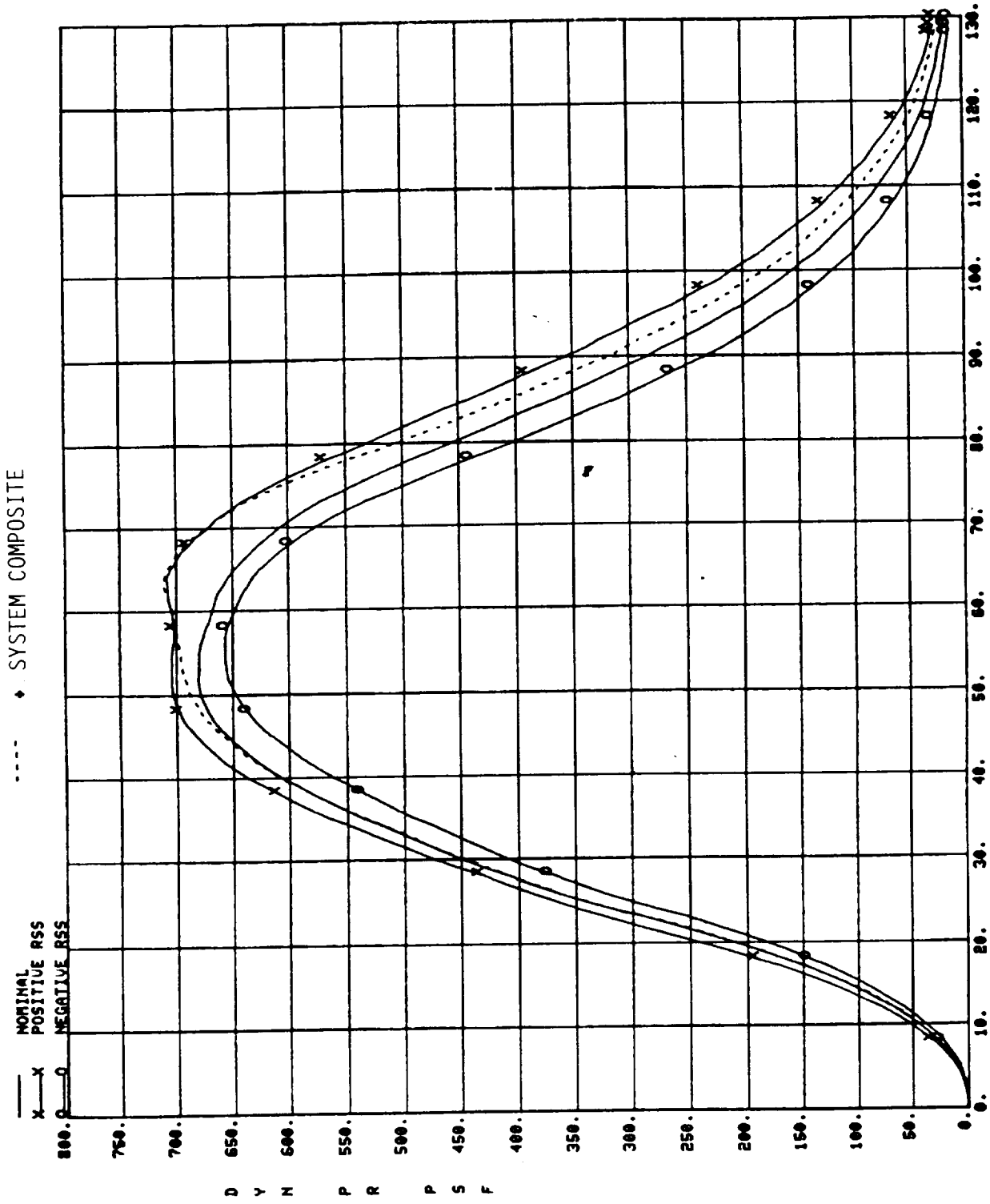

Figure 4-10. Mission 4 System Composite Dynamic Pressure History Comparison

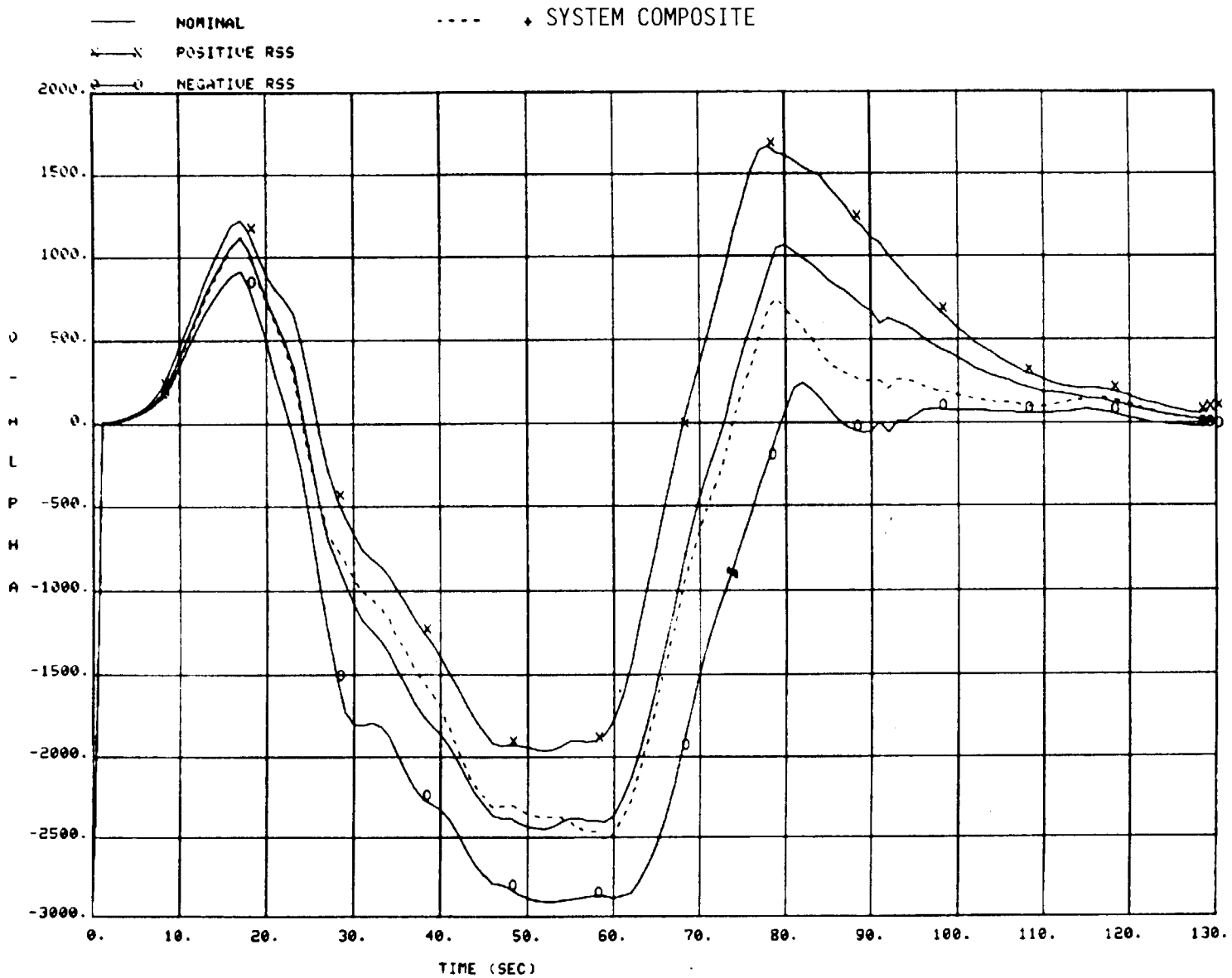

Figure 4-11. Mission 4 System Composite Q-Alpha History Comparison

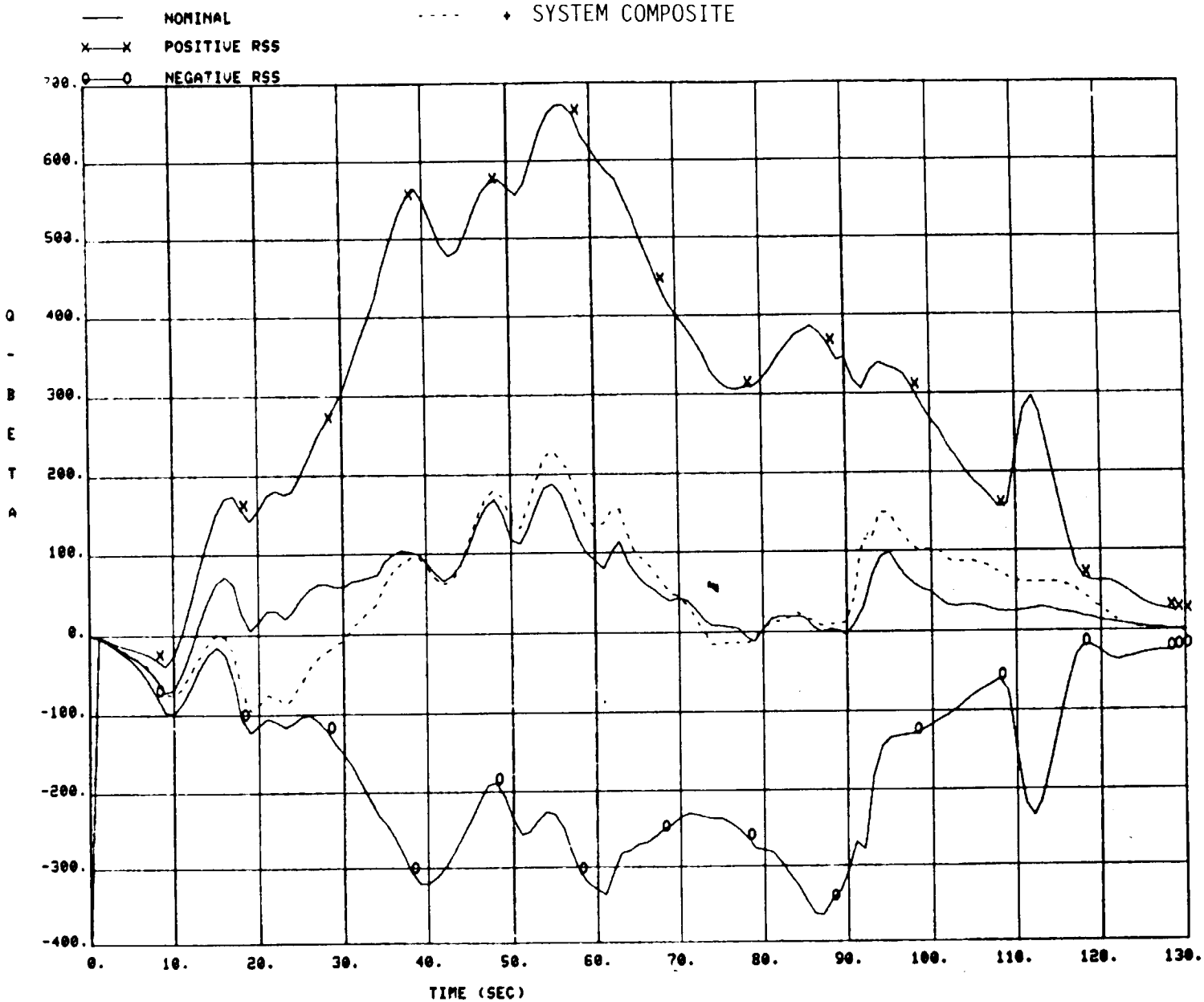

Figure 4-12. Mission 4 System Composite Q-Beta History Comparison

The definition of environmental dispersions was the second step of the process. Parameters used to define the environmental dispersions consist of $\pm 2\sigma$ atmospheric density variations and directional 95% design wind histories (supplied by the Systems Dynamic Laboratory of MSFC). For this analysis, a right quartering head wind and a head wind were chosen as wind dispersion candidates since they would result in critical aerodynamic heating cases. Use of the two wind histories resulted in the requirement for two environmental composites. Each composite consisted of a RSS assessment of the combination of individual density and directional wind dispersions.

The guidelines for defining the maximum aerodynamic heating trajectory were based upon the addition of the system-dependent RSS assessment of AHI and the environmental RSS AHI values. The simulation of the maximum aerodynamic heating trajectory consisted of combining the system-related composite trajectory and the environmental dispersions in a manner which reflected the accumulative sum of these two root sum squared values. Figures 4-13 through 4-16 present plots of the nominal trajectory, the +RSS system dispersion, the addition of the environmental RSS to the system dispersion, and the simulated maximum aerodynamic heating trajectory. Figures 4-13 and 4-14 are Mission 1 trajectories for the right quartering head wind and head wind environments and Figures 4-15 and 4-16 show the same environments for Mission 4.

Tables 4-2 through 4-5 provide time histories of the AHI parameter for the four maximum aerodynamic heating trajectories, two for Mission 1 and two for Mission 4. Also on these tables is an overview of the system composite, system RSS dispersion, environmental dispersions and RSS values, and the summed RSS used for the guidelines of the maximum aerodynamic heating trajectory.

Output of this study for purposes of aerodynamic heating evaluation has been prepared and is shown in Appendices H and I for Missions 1 and 4, respectively. These data have been prepared by

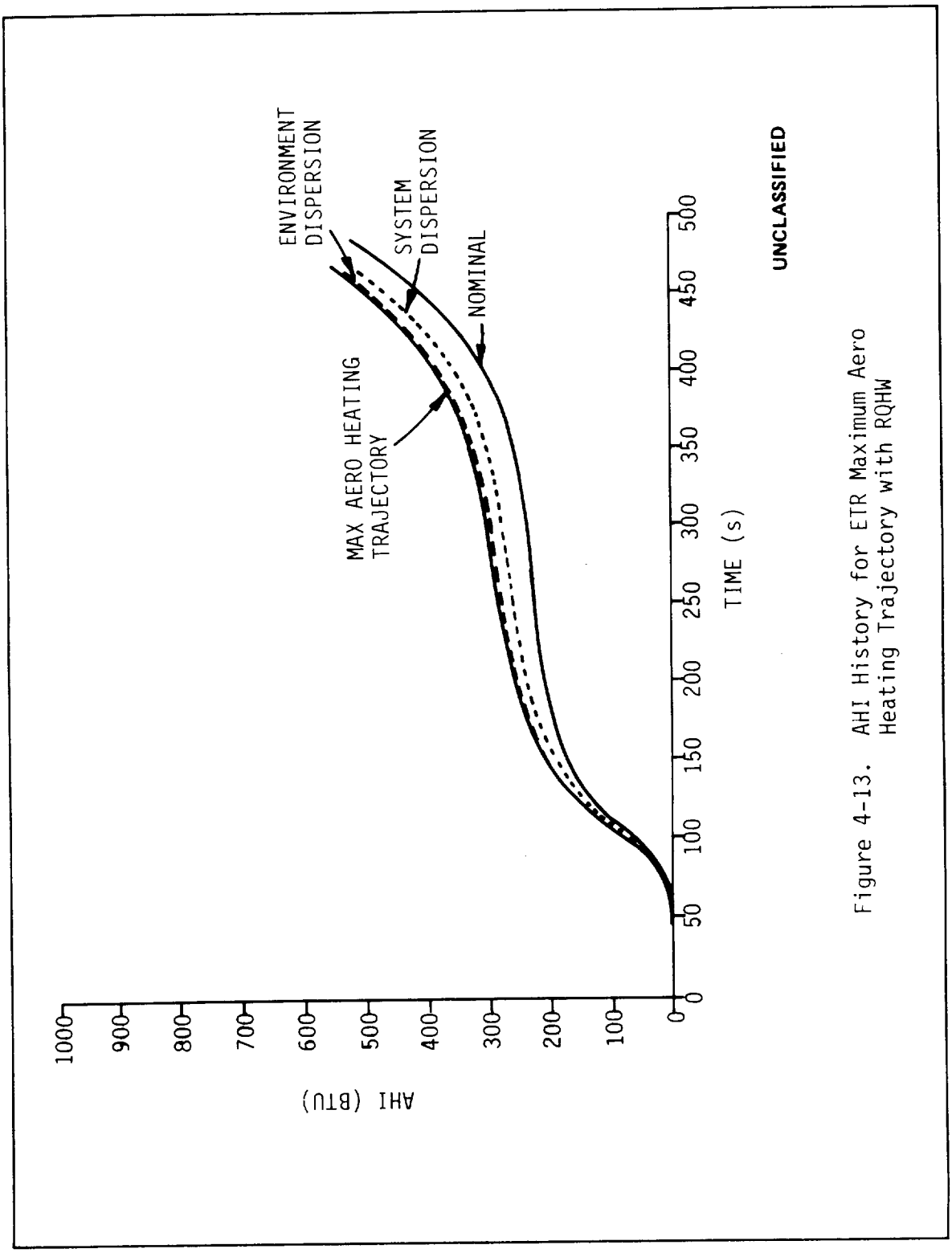

Figure 4-13. AHI History for ETR Maximum Aero Heating Trajectory with RQHW

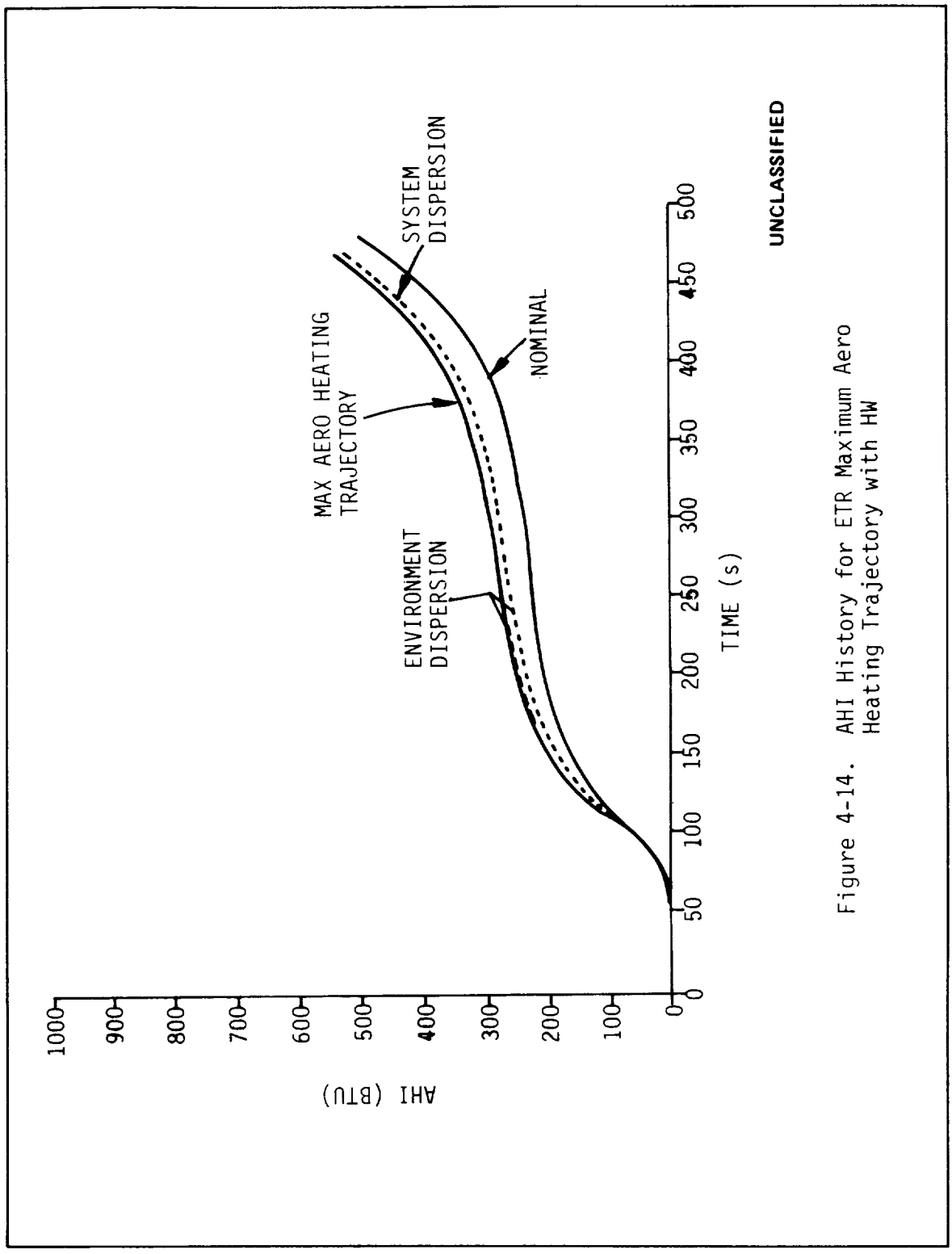

Figure 4-14. AHI History for ETR Maximum Aero Heating Trajectory with HW

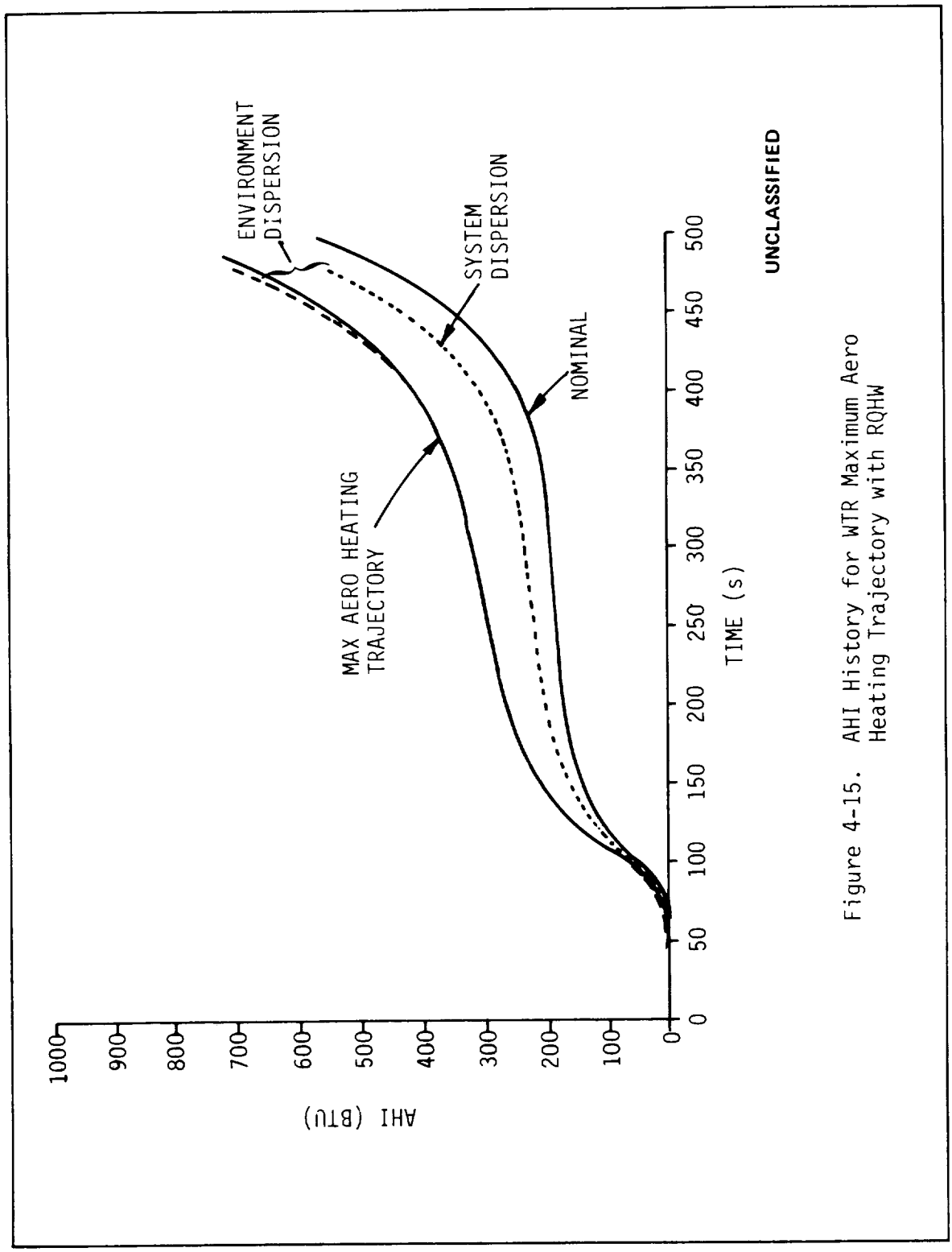

Figure 4-15. AHI History for WTR Maximum Aero Heating Trajectory with RQHW

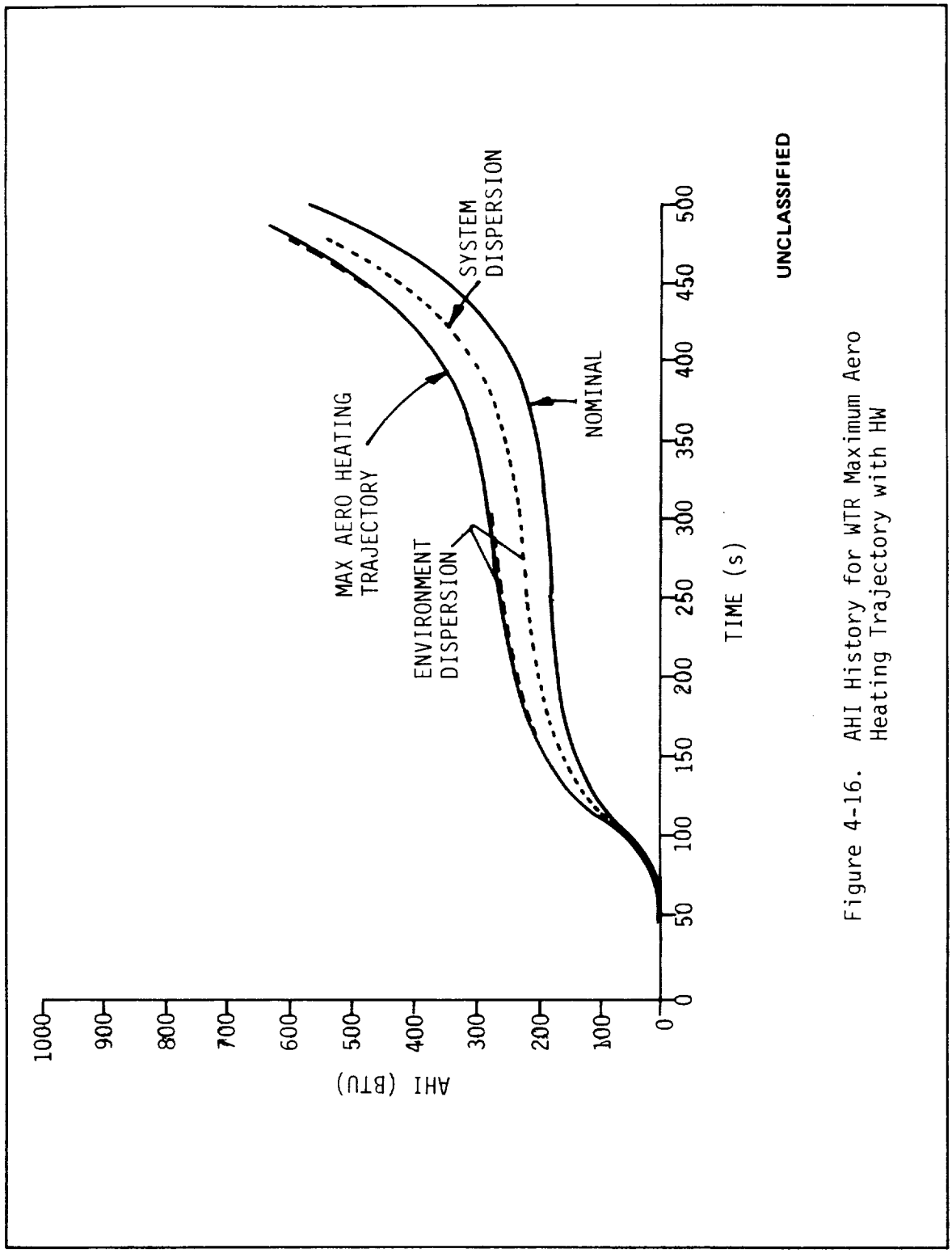

Figure 4-16. AHI History for WTR Maximum Aero Heating Trajectory with HW

Table 4-2. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Right Quartering Head Wind (Mission 1)

		COMPOSITE							AHI
	NOMINAL	SYSTEM		ENVIRONMENT			MAXIMUM HEATING		TRAJ
TIME	VALUE	COMP	+RSS	ATMOS	ROHM	+RSS	+RSS	DISP	VALUE
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
22.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
26.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
27.0	.2	.0	.0	.0	.0	.0	.1	.0	.2
28.0	.2	.0	.0	.0	.0	.0	.1	.0	.2
29.0	.2	.0	.1	.0	.0	.0	.1	.0	.3
30.0	.3	.0	.1	.0	.0	.0	.1	.0	.3
31.0	.3	.0	.1	.0	.0	.0	.1	.0	.3
32.0	.4	.0	.1	.0	.0	.0	.1	.0	.4
33.0	.4	.0	.1	.0	.0	.0	.1	.0	.5
34.0	.5	.0	.1	.0	.0	.0	.1	.0	.5
35.0	.6	.0	.1	.0	.0	.0	.2	.0	.6
36.0	.6	.0	.1	.0	.0	.0	.2	.0	.7
37.0	.7	.0	.1	.0	.0	.1	.2	.0	.8
38.0	.8	.0	.1	.0	.0	.1	.2	.1	.9
39.0	.9	.0	.1	.0	.0	.1	.2	.1	1.0
40.0	1.0	.0	.1	.0	.1	.1	.2	.1	1.1
41.0	1.1	.0	.1	.0	.1	.1	.2	.1	1.2
42.0	1.3	.0	.1	.0	.1	.1	.2	.1	1.3
43.0	1.4	.0	.1	.1	.1	.1	.2	.1	1.5
44.0	1.5	.0	.1	.1	.1	.1	.2	.1	1.6
45.0	1.7	.0	.1	.1	.1	.1	.2	.1	1.8
46.0	1.8	.0	.1	.1	.1	.1	.3	.1	1.9
47.0	2.0	.1	.1	.1	.1	.1	.3	.1	2.1
48.0	2.1	.1	.1	.1	.1	.1	.3	.2	2.3
49.0	2.3	.1	.2	.1	.1	.1	.3	.2	2.5

Table 4-2. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Right Quartering Head Wind (Mission 1) (Continued)

		COMPOSITE							AHI
	NOMINAL	SYSTEM		ENVIRONMENT			MAXIMUM HEATING TRAJ		
TIME	VALUE	COMP	+RSS	ATMOS	RQHW	+RSS	+RSS	DISP	VALUE
50.0	2.5	.1	.2	.1	.1	.1	.3	.2	2.7
51.0	2.7	.1	.2	.1	.1	.2	.3	.2	2.9
52.0	2.9	.1	.2	.1	.1	.2	.3	.2	3.1
53.0	3.1	.1	.2	.1	.2	.2	.4	.2	3.3
54.0	3.3	.1	.2	.1	.2	.2	.4	.3	3.5
55.0	3.5	.1	.2	.1	.2	.2	.4	.3	3.8
56.0	3.7	.1	.3	.0	.2	.2	.4	.3	4.0
57.0	3.9	.1	.2	.0	.2	.2	.5	.3	4.3
58.0	4.2	.2	.3	.0	.2	.2	.5	.4	4.6
59.0	4.4	.2	.3	.0	.3	.3	.6	.4	4.9
60.0	4.7	.2	.3	.0	.3	.3	.6	.5	5.2
61.0	5.0	.2	.4	.0	.3	.3	.7	.5	5.5
62.0	5.3	.2	.4	.0	.3	.3	.7	.6	5.9
63.0	5.6	.3	.4	.0	.4	.4	.8	.6	6.3
64.0	6.0	.3	.5	.0	.4	.4	.9	.7	6.7
65.0	6.4	.3	.6	.0	.4	.4	1.0	.8	7.2
66.0	6.9	.4	.6	.1	.5	.5	1.1	.8	7.7
67.0	7.3	.4	.7	.1	.5	.5	1.2	.9	8.2
68.0	7.8	.4	.8	.1	.6	.6	1.3	1.0	8.8
69.0	8.4	.5	.8	.1	.6	.6	1.4	1.1	9.4
70.0	9.0	.5	.9	.1	.6	.6	1.6	1.2	10.1
71.0	9.6	.6	1.1	.0	.7	.7	1.8	1.3	10.9
72.0	10.3	.7	1.2	.0	.7	.7	2.0	1.4	11.7
73.0	11.1	.7	1.3	.0	.8	.8	2.1	1.5	12.6
74.0	12.0	.8	1.5	.0	.8	.8	2.3	1.6	13.6
75.0	13.0	.9	1.6	.0	.9	.9	2.5	1.7	14.7
76.0	14.0	.9	1.8	.0	.9	.9	2.7	1.8	15.8
77.0	15.1	1.0	1.9	.0	1.0	1.0	2.9	2.0	17.1
78.0	16.3	1.1	2.1	.0	1.0	1.0	3.1	2.1	18.4
79.0	17.6	1.2	2.3	.0	1.1	1.1	3.3	2.3	19.9
80.0	19.0	1.3	2.5	.0	1.1	1.1	3.6	2.5	21.4
81.0	20.5	1.4	2.6	.0	1.2	1.2	3.8	2.6	23.1
82.0	22.0	1.6	2.8	.0	1.3	1.3	4.1	2.8	24.9
83.0	23.7	1.7	3.0	.0	1.4	1.4	4.3	3.1	26.7
84.0	25.4	1.8	3.2	.0	1.4	1.4	4.6	3.3	28.7
85.0	27.2	2.0	3.4	.0	1.5	1.5	4.9	3.6	30.8
86.0	29.1	2.2	3.5	.0	1.6	1.6	5.2	3.8	32.9
87.0	31.1	2.3	3.7	.1	1.7	1.7	5.5	4.1	35.2
88.0	33.2	2.5	3.9	.1	1.8	1.8	5.8	4.4	37.6
89.0	35.3	2.7	4.1	.1	1.9	2.0	6.1	4.7	40.0
90.0	37.5	2.9	4.3	.1	2.1	2.1	6.4	5.0	42.6
91.0	39.8	3.1	4.6	.1	2.2	2.2	6.7	5.4	45.2
92.0	42.2	3.3	4.8	.1	2.3	2.3	7.1	5.7	47.9
93.0	44.6	3.6	5.1	.1	2.5	2.5	7.4	6.1	50.8
94.0	47.2	3.8	5.2	.1	2.6	2.6	7.8	6.5	53.7
95.0	49.7	4.0	5.4	.2	2.8	2.8	8.2	6.9	56.7
96.0	52.4	4.3	5.6	.2	2.9	2.9	8.5	7.3	59.7
97.0	55.1	4.6	5.9	.2	3.1	3.1	8.9	7.8	62.9
98.0	57.9	4.8	6.1	.2	3.2	3.3	9.3	8.2	66.1
99.0	60.7	5.1	6.3	.2	3.4	3.4	9.7	8.7	69.4

Table 4-2. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Right Quartering Head Wind (Mission 1) (Continued)

		COMPOSITE							AHI
	NOMINAL	SYSTEM		ENVIRONMENT			MAXIMUM HEATING		TRAJ
TIME	VALUE	COMP	+RSS	ATMOS	RQHW	+RSS	+RSS	DISP	VALUE
100.0	63.9	5.4	6.5	.3	3.6	3.6	10.2	9.2	72.7
101.0	66.4	5.7	6.8	.3	3.8	3.8	10.6	9.7	76.2
102.0	69.4	6.0	7.0	.3	4.0	4.0	11.0	10.2	79.6
103.0	72.4	6.3	7.3	.4	4.2	4.2	11.5	10.8	83.1
104.0	75.4	6.7	7.5	.4	4.4	4.4	12.0	11.3	86.7
105.0	78.4	7.0	7.8	.5	4.6	4.6	12.4	11.9	90.3
106.0	81.5	7.3	8.1	.5	4.8	4.9	12.9	12.5	93.9
107.0	84.6	7.7	8.3	.6	5.1	5.1	13.4	13.0	97.6
108.0	87.7	8.0	8.6	.6	5.3	5.3	13.9	13.6	101.3
109.0	90.9	8.4	8.8	.6	5.5	5.6	14.4	14.2	105.0
110.0	93.9	8.7	9.1	.7	5.8	5.8	14.9	14.9	108.7
111.0	97.1	9.1	9.4	.7	6.0	6.1	15.4	15.5	112.5
112.0	100.3	9.4	9.7	.8	6.2	6.3	16.0	16.1	116.1
113.0	103.0	9.8	10.0	.9	6.5	6.5	16.5	16.7	119.7
114.0	105.9	10.1	10.2	.9	6.7	6.8	17.0	17.3	123.3
115.0	108.8	10.5	10.6	1.0	6.9	7.0	17.6	17.9	126.7
116.0	111.6	10.8	10.9	1.1	7.2	7.3	18.1	18.5	130.1
117.0	114.2	11.2	11.2	1.1	7.4	7.5	18.7	19.1	133.4
118.0	116.9	11.5	11.5	1.2	7.6	7.7	19.2	19.7	136.5
119.0	119.4	11.8	11.8	1.2	7.8	7.9	19.8	20.3	139.6
120.0	121.8	12.1	12.1	1.3	8.1	8.2	20.3	20.8	142.6
121.0	124.2	12.4	12.4	1.4	8.3	8.4	20.8	21.4	145.6
122.0	126.5	12.7	12.7	1.4	8.5	8.6	21.4	21.9	148.4
123.0	128.7	13.0	13.0	1.5	8.7	8.8	21.9	22.4	151.2
124.0	130.9	13.3	13.3	1.6	8.9	9.1	22.4	23.0	153.9
125.0	133.0	13.6	13.6	1.6	9.1	9.3	22.9	23.5	156.5
126.0	135.0	13.9	13.9	1.7	9.3	9.4	23.3	24.0	159.1
127.0	137.0	14.2	14.2	1.7	9.5	9.6	23.8	24.5	161.5
128.0	138.9	14.5	14.4	1.8	9.6	9.8	24.2	25.0	164.0
129.0	140.8	14.8	14.7	1.8	9.8	10.0	24.7	25.5	166.3
130.0	142.7	15.1	15.0	1.9	10.0	10.1	25.1	25.9	168.6
140.0	158.5	17.7	17.5	2.4	11.4	11.7	29.2	30.3	188.8
150.0	170.8	20.1	19.8	3.0	12.8	13.1	33.0	34.2	205.0
160.0	180.7	22.4	21.9	3.6	14.0	14.5	36.4	37.8	218.5
170.0	189.2	24.3	23.5	3.8	14.7	15.2	38.7	40.7	229.9
180.0	196.8	25.1	25.0	3.1	14.5	14.8	39.9	42.6	239.4
190.0	210.5	26.4	27.7	2.8	14.8	15.1	42.1	44.8	247.3
200.0	207.2	27.6	28.6	2.7	15.2	15.4	44.0	46.8	254.0
210.0	211.2	28.8	30.0	2.7	15.7	15.9	45.9	48.8	260.0
220.0	214.9	30.1	31.4	2.7	16.2	16.4	47.8	50.7	265.3
230.0	217.5	31.3	32.5	2.7	16.7	16.9	49.5	52.6	270.1
240.0	220.3	32.3	33.6	2.7	17.1	17.4	51.0	54.3	274.5
250.0	222.9	33.3	34.6	2.7	17.5	17.7	52.4	55.8	278.7
260.0	225.4	34.2	35.6	2.7	17.9	18.1	53.7	57.3	282.7
270.0	227.9	35.1	36.5	2.7	18.3	18.5	55.0	58.7	286.8
280.0	230.5	35.9	37.4	2.7	18.7	18.8	56.2	60.1	290.6
290.0	233.2	36.8	38.3	2.7	19.0	19.2	57.4	61.4	294.7
300.0	236.2	37.6	39.1	2.7	19.4	19.5	58.7	62.8	298.9
310.0	239.3	38.5	40.1	2.7	19.7	19.9	60.0	64.2	303.5
320.0	242.9	39.4	41.2	2.7	20.1	20.3	61.3	65.6	308.4

Table 4-2. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Right Quartering Head Wind (Mission 1) (Concluded)

		COMPOSITE							AHI
	NOMINAL	SYSTEM		ENVIRONMENT			MAXIMUM HEATING		TRAJ
TIME	VALUE	COMP	+PSS	ATMOS	ROHW	+PSS	+PSS	DISP	VALUE
330.0	240.9	40.3	42.0	2.7	20.5	20.7	62.7	67.1	313.9
340.0	251.3	41.3	43.1	2.7	20.9	21.1	64.2	68.6	319.9
350.0	254.4	42.4	44.2	2.7	21.4	21.5	65.8	70.2	326.6
360.0	262.4	43.5	45.4	2.7	21.9	22.0	67.5	71.9	334.3
370.0	269.3	44.7	46.7	2.7	22.4	22.5	69.2	73.7	343.0
380.0	277.5	45.9	48.0	2.6	22.9	23.0	71.1	75.5	353.1
390.0	287.2	47.1	49.4	2.6	23.4	23.6	73.0	77.4	364.6
400.0	298.7	48.4	50.8	2.6	24.0	24.1	74.9	79.3	378.0
410.0	312.4	49.7	52.2	2.6	24.5	24.6	76.8	81.2	393.6
420.0	328.4	50.9	53.5	2.6	25.0	25.2	78.7	83.0	411.6
430.0	347.8	52.3	54.7	2.6	25.5	25.6	80.4	84.6	432.4
440.0	370.3	53.0	55.8	2.6	25.9	26.0	81.9	86.0	456.3
450.0	396.2	53.7	56.9	2.6	26.2	26.3	83.1	87.0	483.2
460.0	425.5	54.3	57.6	2.6	26.4	26.5	84.2	87.8	513.3
470.0	458.1	54.6	58.5	2.6	26.5	26.7	85.1	88.2	546.3

Table 4-3. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Head Wind (Mission 1)

		COMPOSITE							AHI
		SYSTEM		ENVIRONMENT			MAXIMUM HEATING TRAJ		
TIME	NOMINAL VALUE	COMP	+RSS	ATMOS	HW	+RSS	+RSS	DISP	VALUE
.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
22.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
26.0	.1	.0	.0	.0	.0	.0	.1	.0	.2
27.0	.2	.0	.0	.0	.0	.0	.1	.0	.2
28.0	.2	.0	.0	.0	.0	.0	.1	.0	.2
29.0	.2	.0	.1	.0	.0	.0	.1	.0	.3
30.0	.3	.0	.1	.0	.0	.0	.1	.0	.3
31.0	.3	.0	.1	.0	.0	.0	.1	.0	.4
32.0	.4	.0	.1	.0	.0	.0	.1	.0	.4
33.0	.4	.0	.1	.0	.0	.0	.1	.0	.5
34.0	.5	.0	.1	.0	.0	.0	.2	.0	.5
35.0	.6	.0	.1	.0	.0	.1	.2	.1	.6
36.0	.6	.0	.1	.0	.1	.1	.2	.1	.7
37.0	.7	.0	.1	.0	.1	.1	.2	.1	.8
38.0	.8	.0	.1	.0	.1	.1	.2	.1	.9
39.0	.9	.0	.1	.0	.1	.1	.2	.1	1.0
40.0	1.0	.0	.1	.0	.1	.1	.2	.1	1.1
41.0	1.1	.0	.1	.0	.1	.1	.2	.1	1.3
42.0	1.3	.0	.1	.1	.1	.1	.2	.1	1.4
43.0	1.4	.0	.1	.1	.1	.1	.2	.1	1.5
44.0	1.5	.0	.1	.1	.1	.1	.2	.1	1.7
45.0	1.7	.0	.1	.1	.1	.1	.3	.2	1.8
46.0	1.8	.0	.1	.1	.1	.2	.3	.2	2.0
47.0	2.0	.1	.1	.1	.1	.2	.3	.2	2.2
48.0	2.1	.1	.1	.1	.2	.2	.3	.2	2.3
49.0	2.3	.1	.2	.1	.2	.2	.3	.2	2.5

Table 4-3. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Head Wind (Mission 1) (Continued)

		COMPOSITE							AHI
	NOMINAL	SYSTEM		ENVIRONMENT			MAXIMUM HEATING		TRAJ
TIME	VALUE	COMP	+RSS	ATMOS	HW	+RSS	+RSS	DISP	VALUE
50.0	2.5	.1	.2	.1	.2	.2	.4	.2	2.7
51.0	2.7	.1	.2	.1	.2	.2	.4	.3	2.9
52.0	2.9	.1	.2	.1	.2	.2	.4	.3	3.2
53.0	3.1	.1	.2	.1	.2	.2	.4	.3	3.4
54.0	3.3	.1	.2	.1	.3	.3	.5	.4	3.6
55.0	3.5	.1	.2	.1	.3	.3	.5	.4	3.9
56.0	3.7	.1	.2	.0	.3	.3	.5	.4	4.1
57.0	3.9	.1	.2	.0	.3	.3	.6	.5	4.4
58.0	4.2	.2	.3	.0	.3	.3	.6	.5	4.7
59.0	4.4	.2	.3	.0	.4	.4	.7	.5	5.0
60.0	4.7	.2	.3	.0	.4	.4	.7	.6	5.3
61.0	5.0	.2	.4	.0	.4	.4	.8	.7	5.7
62.0	5.3	.2	.4	.0	.5	.5	.9	.7	6.0
63.0	5.6	.3	.4	.0	.5	.5	1.0	.8	6.4
64.0	6.0	.3	.5	.0	.6	.6	1.1	.9	6.9
65.0	6.4	.3	.6	.0	.6	.6	1.2	1.0	7.4
66.0	6.9	.4	.6	.1	.7	.7	1.3	1.1	7.9
67.0	7.3	.4	.7	.1	.7	.7	1.4	1.1	8.4
68.0	7.8	.4	.8	.1	.8	.8	1.5	1.2	9.0
69.0	8.4	.5	.8	.1	.8	.8	1.7	1.3	9.7
70.0	9.0	.5	.9	.1	.9	.9	1.8	1.4	10.4
71.0	9.6	.6	1.1	.0	.9	.9	2.0	1.5	11.1
72.0	10.3	.7	1.2	.0	1.0	1.0	2.2	1.6	12.0
73.0	11.1	.7	1.3	.0	1.0	1.0	2.3	1.7	12.9
74.0	12.0	.8	1.5	.0	1.0	1.0	2.5	1.8	13.8
75.0	13.0	.9	1.6	.0	1.1	1.1	2.7	1.9	14.9
76.0	14.0	.9	1.8	.0	1.1	1.1	2.9	2.1	16.0
77.0	15.1	1.0	1.9	.0	1.1	1.1	3.1	2.2	17.3
78.0	16.3	1.1	2.1	.0	1.2	1.2	3.3	2.3	18.6
79.0	17.6	1.2	2.3	.0	1.2	1.2	3.5	2.5	20.1
80.0	19.0	1.3	2.5	.0	1.3	1.3	3.7	2.6	21.6
81.0	20.5	1.4	2.6	.0	1.3	1.3	4.0	2.8	23.2
82.0	22.0	1.6	2.8	.0	1.4	1.4	4.2	3.0	25.0
83.0	23.7	1.7	3.0	.0	1.5	1.5	4.5	3.2	26.8
84.0	25.4	1.8	3.2	.0	1.5	1.5	4.7	3.4	28.8
85.0	27.2	2.0	3.4	.0	1.6	1.6	5.0	3.6	30.8
86.0	29.1	2.2	3.6	.0	1.7	1.7	5.2	3.8	33.0
87.0	31.1	2.3	3.7	.1	1.8	1.8	5.5	4.1	35.2
88.0	33.2	2.5	3.9	.1	1.8	1.8	5.8	4.4	37.5
89.0	35.3	2.7	4.1	.1	1.9	1.9	6.1	4.6	39.9
90.0	37.5	2.9	4.3	.1	2.0	2.0	6.4	4.9	42.5
91.0	39.9	3.1	4.6	.1	2.1	2.1	6.7	5.2	45.1
92.0	42.2	3.3	4.8	.1	2.3	2.3	7.0	5.6	47.8
93.0	44.6	3.6	5.1	.1	2.4	2.4	7.3	5.9	50.6
94.0	47.2	3.8	5.2	.1	2.5	2.5	7.7	6.3	53.4
95.0	49.7	4.0	5.4	.2	2.6	2.6	8.0	6.6	56.4
96.0	52.4	4.3	5.6	.2	2.7	2.7	8.3	7.0	59.4
97.0	55.1	4.6	5.9	.2	2.8	2.8	8.7	7.4	62.5
98.0	57.9	4.8	6.1	.2	3.0	3.0	9.0	7.8	65.7
99.0	60.7	5.1	6.3	.2	3.1	3.1	9.4	8.2	68.9

Table 4-3. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Head Wind (Mission 1) (Continued)

		COMPOSITE							AHI
	NOMINAL	SYSTEM		ENVIRONMENT			MAXIMUM HEATING		TRAJ
TIME	VALUE	COMP	+RSS	ATMOS	HW	+RSS	+RSS	DISP	VALUE
100.0	63.5	5.4	6.5	.3	3.3	3.3	9.8	8.7	72.2
101.0	66.4	5.7	6.9	.3	3.4	3.4	10.2	9.1	75.6
102.0	69.4	6.0	7.0	.3	3.5	3.6	10.6	9.6	79.0
103.0	72.4	6.3	7.3	.4	3.7	3.7	11.0	10.1	82.4
104.0	75.4	6.7	7.5	.4	3.9	3.9	11.4	10.6	85.9
105.0	78.4	7.0	7.8	.5	4.1	4.1	11.9	11.1	89.5
106.0	81.5	7.3	8.1	.5	4.2	4.3	12.3	11.6	93.1
107.0	84.6	7.7	8.3	.6	4.5	4.5	12.8	12.1	96.7
108.0	87.7	8.0	8.6	.6	4.7	4.7	13.3	12.7	100.4
109.0	90.8	8.4	8.8	.6	4.9	4.9	13.8	13.3	104.0
110.0	93.9	8.7	9.1	.7	5.1	5.1	14.2	13.8	107.7
111.0	97.0	9.1	9.4	.7	5.3	5.3	14.7	14.4	111.4
112.0	100.0	9.4	9.7	.8	5.5	5.6	15.2	15.0	115.0
113.0	103.0	9.8	10.0	.9	5.7	5.8	15.7	15.6	118.6
114.0	105.9	10.1	10.2	.9	5.9	6.0	16.2	16.2	122.1
115.0	108.8	10.5	10.6	1.0	6.1	6.2	16.8	16.7	125.5
116.0	111.6	10.8	10.9	1.1	6.3	6.4	17.3	17.3	128.8
117.0	114.2	11.2	11.2	1.1	6.6	6.6	17.8	17.8	132.1
118.0	116.9	11.5	11.5	1.2	6.8	6.9	18.4	18.4	135.2
119.0	119.4	11.8	11.8	1.2	7.0	7.1	18.9	18.9	138.3
120.0	121.8	12.1	12.1	1.3	7.2	7.3	19.5	19.5	141.3
121.0	124.2	12.4	12.4	1.4	7.4	7.5	20.0	20.0	144.2
122.0	126.5	12.7	12.7	1.4	7.6	7.8	20.5	20.5	147.0
123.0	128.7	13.0	13.0	1.5	7.8	8.0	21.0	21.1	149.8
124.0	130.9	13.3	13.3	1.6	8.0	8.1	21.5	21.6	152.5
125.0	133.0	13.6	13.6	1.6	8.2	8.3	21.9	22.1	155.1
126.0	135.0	13.9	13.9	1.7	8.3	8.5	22.4	22.5	157.6
127.0	137.0	14.2	14.2	1.7	8.5	8.7	22.8	23.0	160.0
128.0	138.9	14.5	14.4	1.8	8.6	8.8	23.2	23.5	162.4
129.0	140.8	14.8	14.7	1.8	8.8	9.0	23.6	23.9	164.7
130.0	142.7	15.1	15.0	1.9	8.9	9.1	24.1	24.3	167.0
140.0	158.5	17.7	17.9	2.4	10.0	10.3	27.9	29.2	186.7
150.0	170.8	20.1	18.8	3.0	11.0	11.4	31.2	31.6	202.5
160.0	180.7	22.4	21.9	3.6	11.8	12.3	34.2	34.6	215.4
170.0	189.2	24.3	23.5	3.8	12.1	12.6	36.1	37.0	226.2
180.0	196.8	25.1	25.0	3.1	11.5	11.9	36.9	38.3	235.1
190.0	202.8	26.4	27.6	2.8	11.4	11.7	39.8	40.0	242.5
200.0	207.2	27.6	28.6	2.7	11.5	11.8	40.4	41.6	248.8
210.0	211.2	28.9	30.0	2.7	11.7	12.0	42.0	43.1	254.3
220.0	214.5	30.1	31.4	2.7	12.0	12.3	43.7	44.7	259.2
230.0	217.5	31.3	32.8	2.7	12.3	12.6	45.1	46.2	263.7
240.0	220.3	32.3	33.6	2.7	12.5	12.8	46.4	47.5	267.8
250.0	222.9	33.3	34.6	2.7	12.7	13.0	47.6	48.7	271.6
260.0	225.4	34.2	35.6	2.7	12.9	13.2	48.8	49.9	275.3
270.0	227.9	35.1	36.5	2.7	13.1	13.4	49.9	51.0	278.9
280.0	230.5	35.9	37.4	2.7	13.3	13.6	51.0	52.1	282.6
290.0	233.2	36.8	38.3	2.7	13.5	13.8	52.0	53.2	286.4
300.0	236.2	37.6	39.1	2.7	13.7	14.0	53.1	54.3	290.4
310.0	239.3	38.5	40.1	2.7	13.9	14.1	54.2	55.4	294.7
320.0	242.9	39.4	41.0	2.7	14.1	14.3	55.4	56.5	299.4

Table 4-3. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Head Wind (Mission 1) (Concluded)

		COMPOSITE							AHI
	NOMINAL	SYSTEM		ENVIRONMENT			MAXIMUM HEATING		TRAJ
TIME	VALUE	COMP	+RSS	ATMOS	HW	+RSS	+RSS	DISP	VALUE
330.0	246.9	40.3	42.0	2.7	14.3	14.5	56.6	57.7	304.5
340.0	251.2	41.3	43.1	2.7	14.5	14.8	57.9	58.9	310.2
350.0	256.4	42.4	44.2	2.7	14.8	15.0	59.2	60.2	316.6
360.0	262.4	43.5	45.4	2.7	15.0	15.2	60.7	61.6	324.0
370.0	269.3	44.7	46.7	2.7	15.3	15.5	62.2	63.0	332.3
380.0	277.5	45.9	48.0	2.6	15.5	15.8	63.8	64.5	342.0
390.0	287.2	47.1	49.4	2.6	15.8	16.0	65.4	66.1	353.2
400.0	298.7	48.4	50.8	2.6	16.1	16.3	67.1	67.6	366.3
410.0	312.4	49.7	52.2	2.6	16.4	16.6	68.7	69.1	381.5
420.0	328.6	50.9	53.5	2.6	16.6	16.8	70.3	70.6	399.2
430.0	347.8	52.0	54.7	2.6	16.8	17.0	71.8	71.9	419.7
440.0	370.3	53.0	55.8	2.6	17.0	17.2	73.1	73.0	443.3
450.0	396.2	53.7	56.8	2.6	17.2	17.3	74.1	73.8	470.0
460.0	425.5	54.3	57.6	2.6	17.2	17.4	75.0	74.4	499.9
470.0	458.1	54.6	58.5	2.6	17.2	17.4	75.9	74.7	532.8

Table 4-4. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Right Quartering Head Wind (Mission 4)

		COMPOSITE					AHI		
	NOMINAL	SYSTEM		ENVIRONMENT			MAXIMUM HEATING TRAJ		
TIME	VALUE	COMP	+RSS	ATMOS	RGHW	+RSS	+RSS	DISP	VALUE
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
26.0	.1	.0	.0	.0	.0	.0	.1	.0	.1
27.0	.1	.0	.0	.0	.0	.0	.1	.0	.2
28.0	.2	.0	.0	.0	.0	.0	.1	.0	.2
29.0	.2	.0	.0	.0	.0	.1	.1	.0	.2
30.0	.2	.0	.0	.0	.0	.1	.1	.0	.3
31.0	.3	.0	.0	.1	.0	.1	.1	.0	.3
32.0	.3	.0	.1	.1	.0	.1	.1	.1	.3
33.0	.3	.0	.1	.1	.1	.1	.1	.1	.4
34.0	.4	.0	.1	.1	.1	.1	.2	.1	.4
35.0	.4	.0	.1	.1	.1	.1	.2	.1	.5
36.0	.5	.0	.1	.1	.1	.1	.2	.1	.6
37.0	.5	.0	.1	.1	.1	.1	.2	.1	.6
38.0	.6	.1	.1	.1	.1	.2	.2	.1	.7
39.0	.6	.1	.1	.1	.1	.2	.2	.1	.8
40.0	.7	.1	.1	.1	.2	.2	.3	.2	.9
41.0	.8	.1	.1	.1	.2	.2	.4	.2	1.0
42.0	.9	.1	.2	.2	.2	.3	.4	.2	1.1
43.0	.9	.1	.2	.2	.2	.3	.5	.3	1.2
44.0	1.0	.1	.2	.2	.3	.3	.5	.3	1.3
45.0	1.1	.1	.2	.2	.3	.4	.6	.3	1.4
46.0	1.2	.1	.2	.2	.3	.4	.6	.4	1.6
47.0	1.3	.2	.2	.2	.4	.4	.7	.4	1.7
48.0	1.4	.2	.3	.3	.4	.5	.8	.5	1.9
49.0	1.5	.2	.3	.3	.5	.5	.8	.5	2.0

Table 4-4. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Right Quartering Head Wind (Mission 4) (Continued)

		COMPOSITE							AHI
		SYSTEM		ENVIRONMENT			MAXIMUM HEATING TRAJ		
TIME	NOMINAL VALUE	COMP	+RSS	ATMOS	ROHW	+RSS	+RSS	DISP	VALUE
50.0	1.6	.2	.3	.3	.5	.6	.9	.6	2.2
51.0	1.7	.2	.4	.3	.6	.7	1.0	.7	2.4
52.0	1.9	.2	.4	.3	.7	.7	1.1	.7	2.6
53.0	2.0	.3	.4	.3	.7	.8	1.2	.8	2.8
54.0	2.1	.3	.4	.3	.8	.9	1.3	.9	3.0
55.0	2.3	.3	.5	.3	.9	1.0	1.4	1.0	3.3
56.0	2.4	.3	.5	.4	1.0	1.0	1.6	1.1	3.5
57.0	2.6	.4	.5	.4	1.1	1.1	1.7	1.2	3.8
58.0	2.7	.4	.6	.4	1.2	1.2	1.9	1.3	4.0
59.0	2.9	.4	.6	.4	1.3	1.3	2.0	1.4	4.3
60.0	3.1	.5	.7	.4	1.4	1.4	2.1	1.6	4.6
61.0	3.3	.5	.7	.4	1.5	1.5	2.3	1.7	5.0
62.0	3.5	.5	.8	.4	1.6	1.7	2.4	1.8	5.3
63.0	3.8	.5	.9	.4	1.7	1.8	2.6	2.0	5.7
64.0	4.0	.6	.9	.4	1.8	1.9	2.8	2.1	6.1
65.0	4.4	.6	1.0	.4	1.9	2.0	3.0	2.2	6.6
66.0	4.7	.6	1.1	.4	2.0	2.1	3.2	2.4	7.1
67.0	5.1	.6	1.1	.4	2.2	2.2	3.4	2.6	7.6
68.0	5.5	.7	1.2	.4	2.3	2.3	3.6	2.7	8.2
69.0	6.0	.7	1.3	.4	2.4	2.4	3.8	2.9	8.9
70.0	6.5	.8	1.5	.4	2.5	2.6	4.0	3.1	9.5
71.0	7.0	.8	1.6	.3	2.7	2.7	4.2	3.2	10.3
72.0	7.6	.8	1.7	.3	2.8	2.8	4.5	3.4	11.1
73.0	8.3	.9	1.8	.3	3.0	3.0	4.8	3.6	11.9
74.0	9.0	.9	2.0	.3	3.1	3.1	5.1	3.9	12.9
75.0	9.8	1.0	2.1	.3	3.3	3.3	5.4	4.1	13.9
76.0	10.6	1.1	2.3	.3	3.4	3.4	5.7	4.3	15.0
77.0	11.6	1.2	2.5	.3	3.6	3.6	6.1	4.6	16.2
78.0	12.5	1.2	2.7	.3	3.8	3.8	6.5	4.9	17.4
79.0	13.6	1.3	2.9	.3	4.0	4.0	6.8	5.2	18.8
80.0	14.7	1.4	3.0	.3	4.2	4.2	7.2	5.5	20.2
81.0	15.9	1.5	3.2	.3	4.4	4.4	7.6	5.8	21.7
82.0	17.2	1.7	3.4	.3	4.6	4.6	8.0	6.1	23.3
83.0	18.5	1.8	3.6	.3	4.8	4.8	8.5	6.5	25.0
84.0	19.9	1.9	3.8	.3	5.1	5.1	8.9	6.9	26.8
85.0	21.4	2.1	4.0	.3	5.4	5.4	9.4	7.3	28.7
86.0	23.0	2.2	4.2	.3	5.7	5.7	9.9	7.7	30.7
87.0	24.6	2.4	4.4	.3	6.0	6.0	10.4	8.2	32.8
88.0	26.3	2.6	4.6	.3	6.3	6.3	10.9	8.7	35.0
89.0	28.1	2.7	4.9	.3	6.6	6.6	11.5	9.2	37.3
90.0	30.0	2.9	5.1	.3	7.0	7.0	12.1	9.7	39.7
91.0	31.9	3.1	5.3	.3	7.3	7.3	12.6	10.3	42.1
92.0	33.9	3.3	5.5	.3	7.7	7.7	13.2	10.8	44.7
93.0	35.9	3.6	5.7	.4	8.1	8.2	13.8	11.5	47.4
94.0	38.0	3.8	5.9	.4	8.6	8.6	14.5	12.1	50.1
95.0	40.1	4.1	6.1	.4	9.1	9.1	15.2	12.9	53.0
96.0	42.3	4.3	6.3	.4	9.6	9.6	15.9	13.6	55.9
97.0	44.6	4.6	6.5	.5	10.2	10.2	16.7	14.4	59.0
98.0	46.9	4.9	6.7	.5	10.8	10.9	17.5	15.2	62.1
99.0	49.2	5.1	7.0	.6	11.4	11.4	18.4	16.1	65.3

Table 4-4. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Right Quartering Head Wind (Mission 4) (Continued)

		COMPOSITE						AHI	
	NOMINAL	SYSTEM		ENVIRONMENT			MAXIMUM HEATING TRAJ		
TIME	VALUE	COMP	+RSS	ATMOS	RCHW	+RSS	+RSS	DISP	VALUE
100.0	51.6	5.4	7.2	.6	12.0	12.1	19.2	17.0	68.6
101.0	54.1	5.7	7.4	.6	12.7	12.7	20.1	17.9	72.0
102.0	56.6	6.0	7.6	.7	13.4	13.4	21.0	18.9	75.5
103.0	59.1	6.3	7.8	.8	14.1	14.2	22.0	19.9	79.0
104.0	61.7	6.6	8.0	.8	14.9	14.9	22.9	21.0	82.7
105.0	64.2	7.0	8.2	.9	15.7	15.8	24.0	22.1	86.3
106.0	66.8	7.3	8.4	1.0	16.6	16.6	25.0	23.2	90.1
107.0	69.5	7.7	8.6	1.1	17.4	17.5	26.1	24.4	93.9
108.0	72.1	8.0	8.8	1.2	18.3	18.4	27.2	25.7	97.7
109.0	74.7	8.4	9.0	1.3	19.2	19.3	28.3	26.9	101.6
110.0	77.3	8.8	9.2	1.4	20.2	20.2	29.5	28.2	105.6
111.0	80.0	9.2	9.4	1.5	21.1	21.2	30.6	29.5	109.5
112.0	82.6	9.6	9.6	1.6	22.1	22.1	31.8	30.8	113.4
113.0	85.1	9.9	9.8	1.8	23.0	23.1	32.9	32.1	117.3
114.0	87.6	10.3	10.1	1.9	24.0	24.1	34.1	33.5	121.1
115.0	90.2	10.7	10.3	2.0	24.9	25.0	35.3	34.8	124.9
116.0	92.4	11.1	10.5	2.2	25.9	25.9	36.5	36.1	128.4
117.0	94.7	11.5	10.8	2.3	26.7	26.8	37.6	37.3	132.0
118.0	96.9	11.9	11.0	2.4	27.6	27.7	38.8	38.5	135.4
119.0	99.0	12.3	11.3	2.6	28.5	28.6	39.9	39.7	138.8
120.0	101.1	12.6	11.6	2.7	29.3	29.5	41.0	40.9	142.0
121.0	103.1	13.0	11.9	2.9	30.2	30.3	42.2	42.1	145.2
122.0	105.1	13.3	12.1	3.0	31.0	31.1	43.3	43.2	148.3
123.0	107.0	13.7	12.4	3.2	31.9	32.0	44.4	44.3	151.3
124.0	108.8	14.0	12.7	3.3	32.6	32.7	45.4	45.4	154.2
125.0	110.6	14.4	12.9	3.5	33.3	33.5	46.4	46.4	157.1
126.0	112.4	14.7	13.2	3.6	34.0	34.2	47.4	47.5	159.8
127.0	114.0	15.1	13.5	3.7	34.7	34.9	48.4	48.5	162.6
128.0	115.7	15.4	13.8	3.9	35.4	35.6	49.4	49.5	165.2
129.0	117.3	15.8	14.0	4.0	36.1	36.3	50.3	50.5	167.8
130.0	118.8	16.1	14.3	4.2	36.7	36.9	51.3	51.4	170.3
140.0	132.2	19.3	17.2	5.4	42.4	42.7	59.0	60.0	192.2
150.0	142.4	22.2	19.9	6.4	47.1	47.6	67.5	67.3	209.8
160.0	150.6	24.9	22.5	7.6	51.3	51.9	74.3	73.8	224.4
170.0	157.7	26.5	24.0	8.0	54.5	55.0	79.1	79.1	236.8
180.0	163.4	27.8	26.4	7.9	57.2	57.7	84.1	84.0	247.5
190.0	167.9	29.2	28.6	7.9	59.8	60.3	88.9	89.6	256.4
200.0	171.2	30.6	30.6	7.9	62.2	62.7	93.3	92.8	264.0
210.0	174.0	32.1	32.4	8.0	64.6	65.1	97.5	96.8	270.8
220.0	176.3	33.4	33.9	8.1	66.9	67.4	101.3	100.6	276.9
230.0	178.4	34.6	35.2	8.2	69.0	69.5	104.6	104.1	282.5
240.0	180.3	35.6	36.3	8.2	70.8	71.3	107.6	107.4	287.7
250.0	182.1	36.6	37.4	8.3	72.5	73.0	110.4	110.4	292.5
260.0	183.9	37.5	38.4	8.3	74.1	74.6	113.0	113.2	297.1
270.0	185.7	38.4	39.4	8.4	75.7	76.1	115.5	116.0	301.7
280.0	187.5	39.2	40.3	8.4	77.2	77.7	118.0	118.7	306.2
290.0	189.5	40.1	41.3	8.5	78.8	79.2	120.5	121.4	310.9
300.0	191.7	41.0	42.3	8.5	80.4	80.9	123.1	124.1	315.8
310.0	194.0	42.0	43.4	8.5	82.0	82.5	125.9	127.0	321.0
320.0	196.7	43.0	44.6	8.6	83.9	84.3	128.8	130.0	326.7

Table 4-4. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Right Quartering Head Wind (Mission 4) (Concluded)

		COMPOSITE								
										AHI
	NOMINAL	SYSTEM		ENVIRONMENT			MAXIMUM HEATING		TRAJ
TIME	VALUE	COMP	+PSS	ATMOS	RQHW	+RSS	+PSS	DISP	VALUE
330.0	199.7	44.7	45.9	8.6	85.7	86.2	132.0	133.2	332.9
340.0	203.1	45.4	47.1	8.7	87.8	88.2	135.4	136.6	339.7
350.0	207.7	46.7	48.6	8.8	90.1	90.5	139.1	140.3	347.5
360.0	212.1	48.2	50.2	8.8	92.6	93.0	143.2	144.2	356.3
370.0	217.9	49.8	52.0	8.9	95.3	95.7	147.7	148.5	366.4
380.0	224.9	51.5	53.9	9.0	98.3	98.7	152.6	153.1	378.0
390.0	233.5	53.4	56.1	9.0	101.6	102.0	158.0	158.1	391.5
400.0	244.0	55.4	58.5	9.1	105.1	105.4	163.9	163.3	407.3
410.0	257.1	57.5	60.9	9.2	109.7	109.1	170.0	168.7	425.7
420.0	273.1	59.5	63.3	9.3	112.6	113.0	176.3	174.1	447.2
430.0	292.7	61.6	65.8	9.3	116.5	116.9	182.7	179.6	472.3
440.0	316.5	63.6	68.3	9.4	120.5	120.9	189.2	184.7	501.2
450.0	344.7	65.8	70.9	9.4	124.6	125.0	195.9	189.4	534.0
460.0	377.7	66.8	73.9	9.4	128.8	129.2	203.0	193.5	571.2
470.0	415.6	67.9	77.5	9.4	133.2	133.6	211.0	197.1	612.8
480.0	458.4	69.7	82.3	9.4	137.9	138.2	220.5	200.2	658.7

Table 4-5. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Head Wind (Mission 4)

TIME	NOMINAL VALUE	COMPOSITE SYSTEM COMP	COMPOSITE SYSTEM +RSS	ENVIRONMENT ATMOS	ENVIRONMENT HW	ENVIRONMENT +RSS	AHI MAXIMUM HEATING TRAJ +RSS	AHI MAXIMUM HEATING TRAJ DISP	AHI MAXIMUM HEATING TRAJ VALUE
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
25.0	.1	.0	.0	.0	.0	.0	.1	.0	.1
26.0	.1	.0	.0	.0	.0	.0	.1	.0	.1
27.0	.1	.0	.0	.0	.0	.0	.1	.0	.2
28.0	.2	.0	.0	.0	.0	.1	.1	.0	.2
29.0	.2	.0	.0	.0	.0	.1	.1	.0	.2
30.0	.2	.0	.0	.0	.1	.1	.1	.1	.3
31.0	.3	.0	.0	.1	.1	.1	.1	.1	.3
32.0	.3	.0	.1	.1	.1	.1	.1	.1	.4
33.0	.3	.0	.1	.1	.1	.1	.2	.1	.4
34.0	.4	.0	.1	.1	.1	.1	.2	.1	.5
35.0	.4	.0	.1	.1	.1	.1	.2	.1	.5
36.0	.5	.0	.1	.1	.1	.2	.2	.1	.6
37.0	.5	.0	.1	.1	.1	.2	.3	.1	.7
38.0	.6	.1	.1	.1	.2	.2	.3	.2	.8
39.0	.6	.1	.1	.1	.2	.2	.3	.2	.8
40.0	.7	.1	.1	.1	.2	.2	.4	.2	.9
41.0	.8	.1	.1	.1	.2	.3	.4	.3	1.0
42.0	.9	.1	.2	.2	.3	.3	.5	.3	1.1
43.0	.9	.1	.2	.2	.3	.3	.5	.3	1.3
44.0	1.0	.1	.2	.2	.3	.4	.5	.4	1.4
45.0	1.1	.1	.2	.2	.4	.4	.6	.4	1.5
46.0	1.2	.1	.2	.2	.4	.5	.7	.5	1.7
47.0	1.3	.2	.3	.2	.5	.5	.8	.5	1.8
48.0	1.4	.2	.3	.3	.5	.6	.9	.6	2.0
49.0	1.5	.2	.3	.3	.6	.6	.9	.6	2.1

Table 4-5. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Head Wind (Mission 4) (Continued)

		COMPOSITE							AHI
	NOMINAL	SYSTEM		ENVIRONMENT			MAXIMUM HEATING TRAJ		
TIME	VALUE	COMP	+RSS	ATMOS	MW	+RSS	+RSS	DISP	VALUE
50.0	1.6	.2	.3	.3	.6	.7	1.0	.7	2.3
51.0	1.7	.2	.4	.3	.7	.8	1.1	.8	2.5
52.0	1.9	.2	.4	.3	.8	.8	1.2	.8	2.7
53.0	2.0	.3	.4	.3	.8	.9	1.3	.9	2.9
54.0	2.1	.3	.4	.3	.9	1.0	1.4	1.0	3.1
55.0	2.3	.3	.5	.3	1.0	1.1	1.5	1.1	3.4
56.0	2.4	.3	.5	.4	1.1	1.1	1.7	1.2	3.6
57.0	2.6	.4	.5	.4	1.2	1.2	1.8	1.3	3.9
58.0	2.7	.4	.6	.4	1.3	1.3	1.9	1.5	4.2
59.0	2.9	.4	.6	.4	1.4	1.4	2.1	1.6	4.5
60.0	3.1	.5	.7	.4	1.5	1.5	2.2	1.7	4.8
61.0	3.3	.5	.7	.4	1.6	1.6	2.4	1.8	5.1
62.0	3.5	.5	.8	.4	1.7	1.7	2.5	2.0	5.5
63.0	3.8	.5	.9	.4	1.8	1.8	2.7	2.1	5.8
64.0	4.0	.6	.9	.4	1.9	1.9	2.8	2.2	6.3
65.0	4.4	.6	1.0	.4	2.0	2.0	3.0	2.3	6.7
66.0	4.7	.6	1.1	.4	2.1	2.1	3.2	2.5	7.2
67.0	5.1	.6	1.1	.4	2.2	2.2	3.3	2.6	7.7
68.0	5.5	.7	1.2	.4	2.2	2.3	3.5	2.7	8.3
69.0	6.0	.7	1.3	.4	2.3	2.4	3.7	2.9	8.9
70.0	6.5	.8	1.5	.4	2.4	2.5	3.9	3.0	9.5
71.0	7.0	.8	1.6	.3	2.5	2.5	4.1	3.2	10.2
72.0	7.6	.8	1.7	.3	2.6	2.6	4.3	3.3	11.0
73.0	8.3	.9	1.8	.3	2.7	2.7	4.5	3.5	11.8
74.0	9.0	.9	2.0	.3	2.8	2.8	4.8	3.6	12.7
75.0	9.8	1.0	2.1	.3	2.9	2.9	5.0	3.8	13.6
76.0	10.6	1.1	2.3	.3	3.0	3.0	5.3	4.0	14.6
77.0	11.6	1.2	2.5	.3	3.0	3.0	5.5	4.2	15.7
78.0	12.5	1.2	2.7	.3	3.1	3.1	5.8	4.3	16.9
79.0	13.6	1.3	2.9	.3	3.2	3.2	6.1	4.5	18.1
80.0	14.7	1.4	3.0	.3	3.3	3.3	6.3	4.7	19.4
81.0	15.9	1.5	3.2	.3	3.4	3.4	6.6	4.9	20.8
82.0	17.2	1.7	3.4	.3	3.5	3.5	6.9	5.2	22.3
83.0	18.5	1.8	3.6	.3	3.6	3.6	7.3	5.4	23.9
84.0	19.9	1.9	3.9	.3	3.7	3.7	7.6	5.7	25.6
85.0	21.4	2.1	4.0	.3	3.9	3.9	7.9	5.9	27.4
86.0	23.0	2.2	4.2	.3	4.0	4.0	8.2	6.2	29.2
87.0	24.6	2.4	4.4	.3	4.1	4.1	8.6	6.5	31.2
88.0	26.3	2.6	4.6	.3	4.3	4.3	8.9	6.9	33.2
89.0	28.1	2.7	4.9	.3	4.4	4.5	9.3	7.2	35.3
90.0	30.0	2.9	5.1	.3	4.6	4.6	9.7	7.6	37.5
91.0	31.9	3.1	5.3	.3	4.8	4.8	10.1	7.9	39.9
92.0	33.9	3.3	5.5	.3	5.0	5.0	10.4	8.3	42.2
93.0	35.9	3.6	5.7	.4	5.2	5.2	10.9	8.8	44.6
94.0	38.0	3.8	5.9	.4	5.4	5.4	11.3	9.2	47.2
95.0	40.1	4.1	6.1	.4	5.7	5.7	11.9	9.7	49.8
96.0	42.3	4.3	6.3	.4	5.9	5.9	12.3	10.2	52.6
97.0	44.6	4.6	6.5	.5	6.2	6.2	12.7	10.8	55.4
98.0	46.9	4.9	6.7	.5	6.5	6.5	13.3	11.3	58.2
99.0	49.2	5.1	7.0	.6	6.8	6.8	13.8	11.9	61.2

Table 4-5. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Head Wind (Mission 4) (Continued)

		COMPOSITE					AHI		
		SYSTEM		ENVIRONMENT			MAXIMUM HEATING TRAJ		
TIME	NOMINAL VALUE	COMP	+RSS	ATMOS	HW	+RSS	+RSS	DTSP	VALUE
100.0	51.6	5.4	7.2	.6	7.1	7.2	14.3	12.5	64.2
101.0	54.1	5.7	7.4	.6	7.5	7.5	14.9	13.2	67.3
102.0	56.6	6.0	7.6	.7	7.8	7.9	15.4	13.8	70.4
103.0	59.1	6.3	7.8	.8	8.2	8.3	16.1	14.5	73.7
104.0	61.7	6.6	8.0	.8	8.7	8.7	16.7	15.3	76.9
105.0	64.2	7.0	8.2	.9	9.1	9.2	17.4	16.1	80.3
106.0	66.8	7.3	8.4	1.0	9.6	9.6	18.0	16.9	83.7
107.0	69.5	7.7	8.6	1.1	10.1	10.1	18.7	17.7	87.2
108.0	72.1	8.0	8.9	1.2	10.6	10.6	19.4	18.6	90.7
109.0	74.7	8.4	9.0	1.3	11.1	11.2	20.2	19.5	94.2
110.0	77.3	8.8	9.2	1.4	11.6	11.7	20.9	20.4	97.8
111.0	80.0	9.2	9.4	1.5	12.2	12.3	21.7	21.4	101.3
112.0	82.6	9.6	9.6	1.6	12.8	12.9	22.5	22.3	104.9
113.0	85.1	9.9	9.8	1.8	13.3	13.5	23.3	23.3	108.4
114.0	87.6	10.3	10.1	1.9	13.9	14.0	24.1	24.3	111.9
115.0	90.0	10.7	10.3	2.0	14.5	14.6	24.9	25.2	115.3
116.0	92.4	11.1	10.5	2.2	15.0	15.2	25.7	26.2	118.6
117.0	94.7	11.5	10.8	2.3	15.6	15.8	26.6	27.1	121.8
118.0	96.9	11.9	11.0	2.4	16.2	16.3	27.4	28.0	124.9
119.0	99.0	12.3	11.3	2.6	16.7	16.9	28.2	28.9	128.0
120.0	101.1	12.6	11.6	2.7	17.3	17.5	29.1	29.8	131.0
121.0	103.1	13.0	11.9	2.9	17.8	18.0	29.9	30.7	133.9
122.0	105.1	13.3	12.1	3.0	18.3	18.6	30.7	31.6	136.7
123.0	107.0	13.7	12.4	3.2	18.9	19.1	31.5	32.5	139.5
124.0	108.8	14.0	12.7	3.3	19.3	19.6	32.3	33.3	142.1
125.0	110.6	14.4	12.9	3.5	19.8	20.1	33.0	34.1	144.7
126.0	112.4	14.7	13.2	3.6	20.2	20.5	33.7	34.9	147.3
127.0	114.0	15.1	13.5	3.7	20.6	20.9	34.4	35.7	149.7
128.0	115.7	15.4	13.8	3.9	21.0	21.4	35.1	36.5	152.1
129.0	117.3	15.8	14.0	4.0	21.4	21.8	35.8	37.2	154.4
130.0	118.8	16.1	14.3	4.2	21.8	22.1	36.5	37.9	156.7
140.0	132.2	19.3	17.2	5.4	26.0	25.4	42.6	44.2	176.3
150.0	142.4	22.2	19.9	6.4	27.7	28.1	48.0	49.5	191.9
160.0	150.6	24.9	22.5	7.6	29.4	30.4	52.9	54.0	204.6
170.0	157.7	26.5	24.0	8.0	30.5	31.5	55.5	57.5	215.3
180.0	163.4	27.8	26.4	7.9	31.3	32.2	58.7	60.6	224.0
190.0	167.8	29.2	28.6	7.9	32.2	33.2	61.8	63.5	231.3
200.0	171.2	30.6	30.6	7.9	33.1	34.2	64.8	66.3	237.5
210.0	174.0	32.1	32.4	8.0	34.4	35.3	67.7	68.9	242.9
220.0	176.3	33.4	33.9	8.1	35.4	36.3	70.2	71.5	247.8
230.0	178.4	34.6	35.2	8.2	36.2	37.1	72.3	73.8	252.2
240.0	180.3	35.6	36.3	8.2	37.0	37.9	74.3	75.8	256.1
250.0	182.1	36.6	37.4	8.3	37.7	38.6	76.0	77.7	259.8
260.0	183.9	37.5	38.4	8.3	38.4	39.3	77.7	79.5	263.4
270.0	185.7	38.4	39.4	8.4	39.0	39.9	79.3	81.2	266.9
280.0	187.5	39.2	40.3	8.4	39.6	40.5	80.8	82.9	270.5
290.0	189.5	40.1	41.3	8.5	40.3	41.2	82.5	84.6	274.1
300.0	191.7	41.0	42.3	8.5	41.0	41.8	84.2	86.4	278.0
310.0	194.0	42.0	43.4	8.5	41.7	42.5	86.0	88.2	282.2
320.0	196.7	43.0	44.6	8.6	42.4	43.2	87.9	90.1	286.9

Table 4-5. Criteria for Determination of Maximum Aerodynamic Heating Trajectory for Head Wind (Mission 4) (Concluded)

		COMPOSITE							AHI
	NOMINAL	SYSTEM		ENVIRONMENT			MAXIMUM HEATING		IBAJ
TIME	VALUE	COMP	+PSS	ATMOS	HW	+PSS	+PSS	DISP	VALUE
330.0	199.7	44.2	48.9	0.6	43.3	44.1	89.9	92.1	291.9
340.0	207.1	45.4	47.1	0.7	44.1	45.0	92.1	94.3	297.5
350.0	207.2	46.7	48.6	0.8	45.1	45.9	94.5	96.7	303.9
360.0	217.1	48.2	50.2	0.8	46.1	47.0	97.1	99.3	311.3
370.0	217.9	49.8	52.0	0.9	47.3	48.1	100.0	102.0	319.9
380.0	224.9	51.5	53.9	0.0	48.5	49.3	103.2	105.0	329.9
390.0	233.5	53.4	56.1	0.0	49.9	50.7	106.8	108.2	341.7
400.0	244.0	55.4	58.5	0.1	51.3	52.1	110.5	111.5	355.5
410.0	257.1	57.5	60.9	0.2	52.7	53.5	114.4	114.9	372.0
420.0	273.1	59.5	63.3	0.3	54.1	54.8	118.2	118.3	391.4
430.0	292.7	61.6	65.8	0.3	55.4	56.2	122.0	121.6	414.4
440.0	316.5	63.6	68.3	0.4	56.7	57.4	125.8	124.7	441.2
450.0	344.7	65.4	70.9	0.4	57.7	58.5	129.4	127.4	472.0
460.0	377.7	66.8	73.0	0.4	58.5	59.3	133.1	129.5	507.2
470.0	415.6	67.9	77.5	0.4	59.1	59.8	137.3	130.9	546.6
480.0	458.4	68.7	82.3	0.4	59.3	60.0	142.3	131.7	590.2

combining the maximum aerodynamic heating trajectory parameters with the ±RSS system-related dispersions.

Trajectory parameters for the systems composite and the maximum aerodynamic heating trajectories are also stored on a computer file in the same manner as the dispersion trajectories.

APPENDIX A—MISSION 1 CRITERIA INPUT REQUIREMENTS

Mission

a. 65,000-lb payload

b. 28.5° orbit inclination

Trajectory

a. General

   1. Nominal shaping

b. Launch

   1. Launch Pad

      Latitude = 28.6084° North
      Longitude = 279.39° East
      Altitude = 95 ft

      Altitude corresponds to booster station 1942 (11.36 in. below the base of the booster skirt).

   2. Orbiter tail-south orientation.

   3. Staggered start on main engines. 120-ms delay between starts; each Space Shuttle Main Engine (SSME) reaches 90% thrust at 3.7 s after its start signal.

   4. Solid rocket booster (SRB) ignition command defines t_0 and is issued 2.716 s after last SSME reaches 90% thrust. Solid rocket motor (SRM) thrust rise starts 0.011 s after ignition command

   5. Vertical rise until vehicle has gained 365 ft of altitude

   6. Single-axis-rotation (pitch, yaw, roll) maneuver after vertical rise

c. First stage

   1. Range Reference Atmosphere ETR-August

   2. ETR August mean wind (see Figure A-1)

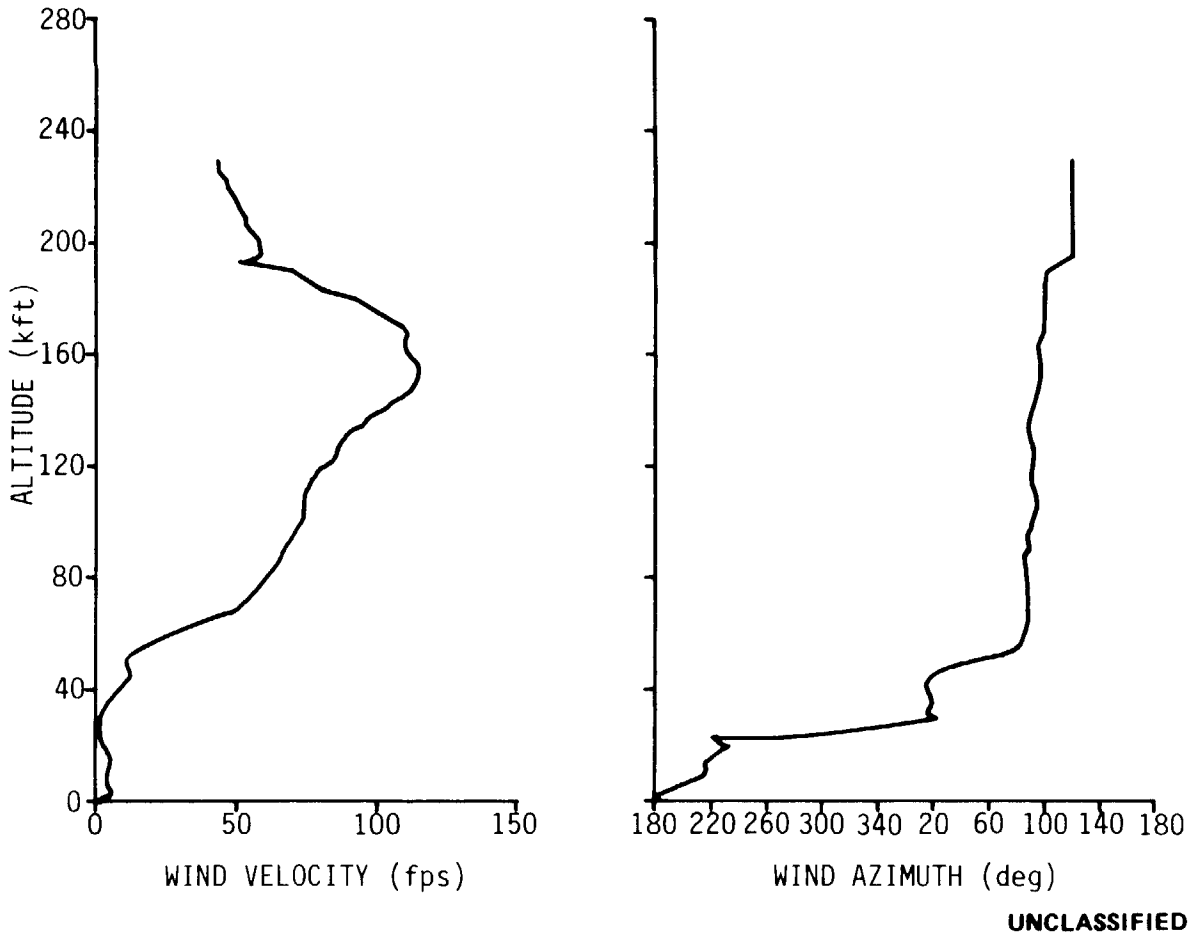

Figure A-1. ETR August Mean Wind Data

3. Flight control 10 (Table A-1)

4. Maximum dynamic pressure 740 psf

5. Main propulsion system (MPS) throttle schedule (for all three engines), single-step throttle

I-Load Entries		Reference Values	
V_{rel} (fps)	Command Throttle (%)	Time (s)	Actual Throttle (%)
0.0	100	0.00	100
56.6	109	3.48	100
		4.38	109
750.0	109	30.16	109
940.0	65	36.96	109
		41.36	65
1400.0	109	57.24	65
		61.64	109

6. SSME throttle change rate ±10%/s

7. Elevon Schedule 6A

Relative Velocity August (fps)	Inboard Elevon Deflection (deg)	Outboard Elevon Deflection (deg)
0.0	10.0	9.0
1115.0	10.0	9.0
1283.2	10.0	3.0
1513.0	10.0	-5.0
1704.0	10.0	-5.0
2268.0	1.5	-5.0
2373.0	0.0	-2.5
2478.0	0.0	0.0

Table A-1. Flight Control Parameter (Mission 1)

Relative Velocity	SRB Gimbal Trim	Normal Load Factor
	Nominal	Nominal
0.00	.0001	.0518
56.40	-.1759	.0564
120.20	-.2822	.0641
149.10	-.2755	.0626
387.00	-.3808	.0464
451.60	-.4353	.0501
530.00	-.5374	.0614
685.00	-.9301	.1080
940.00	-1.8870	.1607
1048.00	-1.0382	.1324
1115.00	-.7561	.1523
1283.00	-1.0776	.1530
1400.00	-.9522	.1614
1539.00	-1.1874	.2076
1878.00	-.4895	.1175
2268.00	.2209	.0785
2742.00	.4211	.0963
3839.00	.8328	.1243
4191.00	.8185	.1429
4700.00	.8185	.2295
SSME Gimbal Trim = -3.12 Degrees at Staging		

Table A-1. Flight Control Parameter (Mission 1) (Concluded)

Relative Velocity	No Engine Failures		
	Pitch Command	Yaw Command	Roll Command
0.00	90.000	0.000	0.000
120.16	72.800	90.800	180.000
386.97	72.800	90.800	180.000
420.00	72.000	90.700	180.000
460.00	71.200	90.600	180.000
500.00	70.600	90.500	180.000
550.00	70.100	90.400	180.000
600.00	69.800	90.400	180.000
650.00	69.900	90.500	180.000
700.00	69.400	90.500	180.000
800.00	68.000	90.500	180.000
900.00	66.700	90.500	180.000
1000.00	65.500	90.300	180.000
1100.00	63.900	90.100	180.000
1200.00	62.000	89.800	180.000
1300.00	60.000	89.500	180.000
1400.00	58.300	89.400	180.000
1500.00	56.900	89.200	180.000
1700.00	53.100	88.900	180.000
1900.00	49.200	89.200	180.000
2100.00	45.800	89.400	180.000
2300.00	42.600	89.400	180.000
2600.00	39.600	89.500	180.000
2900.00	36.900	89.500	180.000
3200.00	34.700	89.500	180.000
3500.00	32.600	89.600	180.000
3800.00	30.700	89.600	180.000
4125.00	28.700	89.700	180.000
4461.00	24.600	89.700	180.000
4750.00	17.600	90.400	180.000

8. Path adaptive guidance parameters

Reference Adjust Time	= 21.117(s)
Reference Velocity	= 488(f/s)
Throttle Event for High Performance	= 3.0
Throttle Event for Low Performance	= 4.0
Pitch Factor High Performance	= 0.006
Pitch Factor Low Performance	= 0.0009
Thrust Factor High Performance	= 6000
Thrust Factor Low Performance	= 4975
Percent Pitch Adjustment During Load Relief	= 1.0

d. Staging

1. SRB separation 6.0 s after P_c = 50 psi
2. Command SRB nozzle actuators to null 4.3 s after P_c = 50 psi
3. Attitude hold from SRB separation to 4.0 s after separation
4. Maximum dynamic pressure at separation shall not exceed 75 psf (with dispersions)
5. Begin SSME trim command after P_c = 380 psi (6-s ramp). Constant SRB trim command beyond V_{rel} corresponding to nominal P_c = 380 psi

e. Second stage

1. General
   (a) Maximum acceleration = 3 g's by MPS throttling
   (b) Alpha Limiter = $\pm 5°$ around $2°\alpha$ prior to 150 s or 200,000 ft
2. Nominal trajectory
   (a) MPS throttle setting = 109% (FPL)
   (b) SSME throttle to reach 65% (MPL) 6 s before MECO at -10%/s

(c) MECO target conditions

h (equatorial)	57 nm
gamma (inertial)	0.65°
v (inertial)	25,670 fps
Inclination	28.5°
I_Y vector	0.7176, -0.47175, -0.87881

Propulsion

a. Nominal thrust and specific impulse

1. SRM

(a) MSFC 313-82 data with ETR (0.368 ips) burn rate; 81°F grain temperature for August; lightweight steel cases

2. SSME

(a) T_{vac} = 470,000 lb 100% level rated power level (RPL)

(b) A_{exit} = 6464.36 in^2

(c) $I_{sp}vac$ = 452.35 s for T = 100%, mixture ratio (MR) at injector = 6.014:1

(d) $I_{sp}vac$ = 452.45 s for T = 109%

(e) Pitch null = -16° (No. 1 engine) and -10° (No. 2 and No. 3 engines)

(f) Yaw null = 0° (all engines); No. 2 and No. 3 are electronically biased to 0 from their mechanical nulls of 3.5° outboard

Aerodynamics

Revised IVBC-3 Integrated Aerodynamic Data Base (Reference: JSC/ET3/8301-18 dated 1 February 1983)

Mass Properties

a. Mass properties of elements

b. Element weights

Orbiter weight = 147,803 lb
External tank (ET) weight = 67,372 lb
SSME weight = 20,859 lb

c. MPS propellant weights

Total* propellant weight at SRB ignition = 1,593,713 lb

d. SRB weights

SRB gross weight = 2,590,174 lb
SRB inert weight = 355,852 lb

e. OMS and RCS propellant weights

OMS = 19,700 lb
RCS = 7,508 lb

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*Liquids and Gases

APPENDIX B—MISSION 4 CRITERIA INPUT REQUIREMENTS

Mission

a. 32,000 lb payload

b. 98° orbit inclination (nominal mission)

Trajectory

a. General

1. Nominal shaping

b. Launch

1. Launch pad

Latitude = 34.58139° North
Longitude = 239.37472° East
Altitude = 430 ft

Altitude corresponds to booster station 1942 (11.36 in. below the base of the booster skirt)

2. Orbiter tail-west orientation

3. Staggered start on main engines. 120-ms delay between starts; each SSME reaches 90% thrust at 3.7 s after its start signal

4. SRB ignition command defines t_0 and is issued 2.716 s after last SSME reaches 90% thrust. SRM thrust rise starts 0.011 s after ignition command

5. Vertical rise until vehicle has gained 365 ft of altitude

c. First stage

1. Range Reference Atmosphere WTR-December

2. Vandenberg December mean wind (See Figure B-1)

3. Flight control 10 (see Table B-1)

4. Maximum dynamic pressure 680 psf

5. MPS throttle schedule (for all three engines), single-step throttle

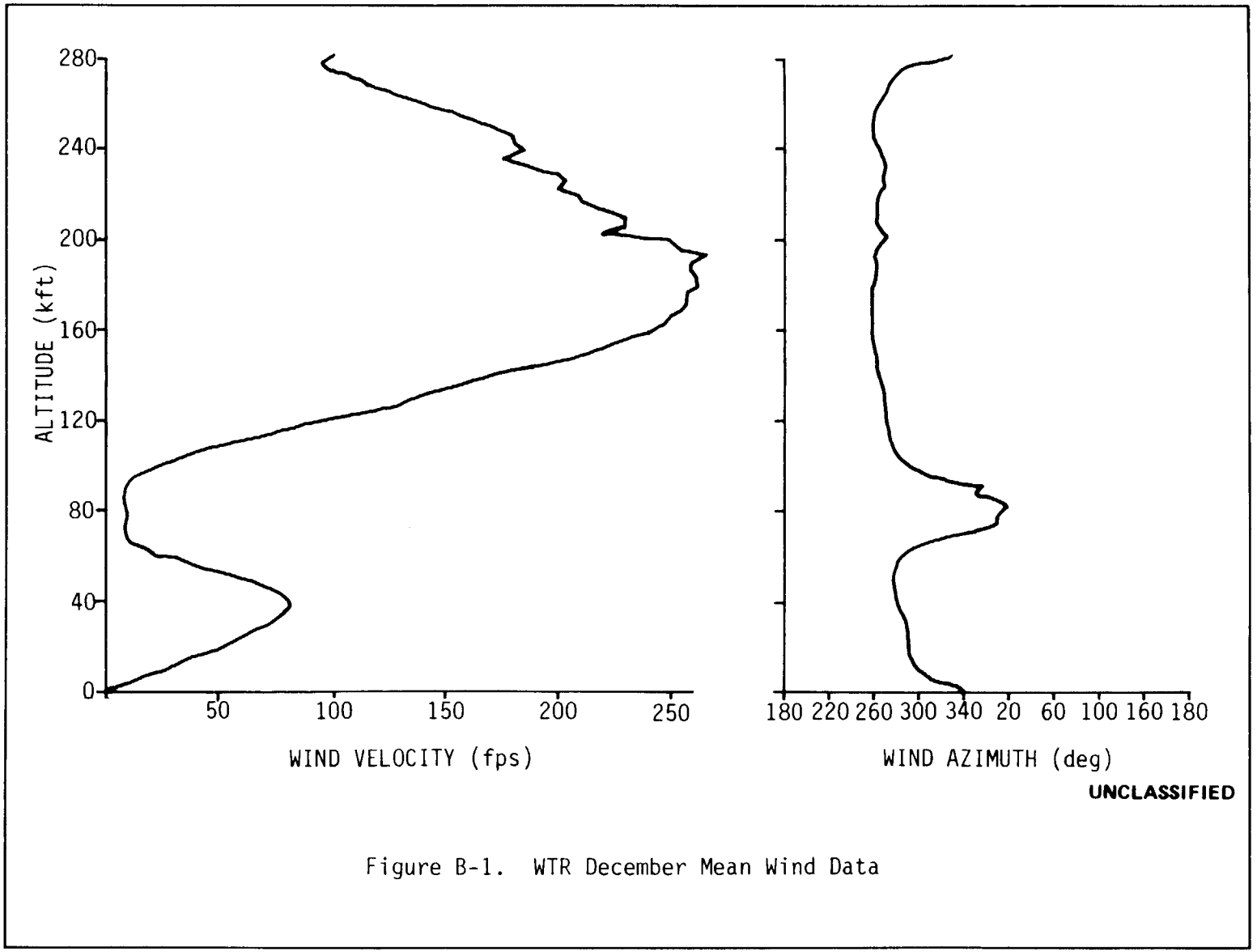


Figure B-1. WTR December Mean Wind Data

Table B-1. Flight Control Parameters (Mission 4)

Relative Velocity	No Engine Failures		
	Pitch Command	Yaw Command	Roll Command
0.00	90.000	183.000	93.000
120.32	73.121	179.504	180.000
395.48	73.121	179.504	180.000
511.28	72.026	180.603	180.000
626.42	72.252	182.896	180.000
722.12	70.981	184.907	180.000
812.86	69.139	186.589	180.000
902.59	67.426	187.907	180.000
990.93	65.917	188.979	180.000
1077.83	64.671	189.948	180.000
1164.82	63.029	190.808	180.000
1253.23	61.338	191.573	180.000
1352.46	59.683	192.166	180.000
1477.88	57.969	192.252	180.000
1632.96	55.303	191.871	180.000
1805.87	52.233	191.193	180.000
1997.83	48.970	190.361	180.000
2209.54	45.652	189.575	180.000
2431.49	43.388	189.131	180.000
2658.88	41.386	188.950	180.000
2890.94	39.493	188.955	180.000
3132.41	37.572	189.831	180.000
3376.33	35.869	190.213	180.000
3622.39	34.196	190.794	180.000
3865.67	32.581	191.598	180.000
4098.22	31.082	192.279	180.000
4258.32	29.723	192.795	180.000
4337.17	28.434	193.239	180.000
4397.99	27.026	193.523	180.000
4783.71	17.957	191.669	180.000

Table B-1. Flight Control Parameters (Mission 4) (Concluded)

Relative Velocity	SRB Gimbal Trim	Normal Load Factor
	Nominal	Normal
0.00	-.3203	.0522
29.64	-.3203	.0599
56.85	-.3097	.0598
73.99	-.4529	.0690
241.80	-.4283	.0549
342.05	-.4942	.0444
570.71	-.7752	.0747
626.42	-.5904	.0723
649.46	-.5023	.0736
685.45	-.3648	.0603
946.95	-1.1802	.1166
1077.83	-.7781	.1538
1121.22	-.7764	.1615
1253.23	-1.0141	.1578
1352.08	-.9085	.1648
1492.01	-1.1999	.2193
2209.54	-.0171	.0878
3622.39	.5953	.1277
3984.81	.6108	.1384
4503.58	.6108	.3206
SSME Gimbal Trim = -3.00 Degrees at Staging		

I-Load Entries		Reference Values	
V_{rel} (fps)	Command Throttle (%)	Time (s)	Actual Throttle (%)
0.00	100	0.0	100
56.85	109	3.48	100
		4.38	109
500.00	65	21.52	109
570.70	65	23.84	109
		28.24	65
1352.08	109	57.28	65
		61.68	109

6. SSME throttle change rate $\pm$10%/s

7. Elevon Schedule 6A

Relative Velocity (fps)	Inboard Elevon Deflection (deg)	Outboard Elevon Deflection (deg)
0.0	10.0	9.0
1088.5	10.0	9.0
1249.7	10.0	3.0
1493.7	10.0	-5.0
1718.3	10.0	-5.0
2292.0	1.5	-5.0
2396.0	0.0	-2.5
2500.3	0.0	0.0

8. Path adaptive guidance parameters

   Reference Adjust Time = 20.0(s)

   Reference Velocity = 455.7(f/s)

   Throttle Event for High Performance = 3.0

   Throttle Event for Low Performance = 4.0

Pitch Factor High Performance	= 0.005
Pitch Factor Low Performance	= 0.003
Thrust Factor High Performance	= 0
Thrust Factor Low Performance	= 5341
Percent Pitch Adjustment During Load Relief	= 1.75

d. Staging

1. SRB separation 6.0 s after P_c = 50 psi
2. Command SRB nozzle actuators to null 4.3 s after P_c = 50 psi
3. Attitude hold from SRB separation to 4.0 s after separation
4. Maximum dynamic pressure at separation shall not exceed 75 psf (with dispersions)
5. Begin SSME trim command after P_c = 380 psi (6 s ramp). Constant SRB trim command beyond V_{rel}—corresponding to nominal P_c = 380 psi

e. Second stage

1. General

   (a) Maximum acceleration = 3 g's by MPS throttling

   (b) α limiter = $\pm 5°$ around 2° α prior to 150 s or 200,000 ft

2. Nominal trajectory

   (a) MPS throttle setting = 109% (FPL)

   (b) Instantaneous pitch/yaw maneuver at abort mode boundary

   (c) SSME is throttled to reach 65% (MPL) 6 s before MECO at -10%/s

   (d) MECO target conditions

h (equatorial)	57 nm
γ (inertial)	0.65°
v (inertial)	25,370 fps
Inclination	98°
I_γ vector	-0.81348, 0.56470, 0.139173

Propulsion (Nominal Thrust and Specific Impulse)

a. SRM

1. MSFC 313-82 data with WTR burn rate (0.366 ips) for 54°F grain temperature for December, lightweight steel case

b. SSME

1. T_{vac} = 470,000 lb (100% power level RPL)

2. A_{exit} = 6464.36 in^2

3. $I_{sp}vac$ = 452.35 s for T = 100% MR at injector = 6.014:1

4. $I_{sp}vac$ = 452.45 s for T = 109%

5. Pitch null = -16° (No. 1 engine) and -10° (No. 2 and No. 3 engines)

6. Yaw null = 0° (all engines); No. 2 and No. 3 are electronically biased to 0 from their mechanical nulls of 3.5° outboard

Aerodynamics

Revised IVBC-3 Integrated Aerodynamics Data Base

Mass Properties

a. Mass properties of elements

b. Element weights

Orbiter weight = 147,803 lb
ET weight = 67,372 lb
SSME weight = 20,859 lb

c. MPS propellant weights

Total* propellant weight at SRB ignition = 1,593,713 lb

*Liquids and Gases

d. SRB weights

SRB gross weight = 2,590,174 lb
SRB inert weight = 355,852 lb

e. OMS and RCS Propellant weights

OMS = 25,064 lb
RCS = 7,508 lb

APPENDIX C—DERIVATION OF ERRORS AND UNCERTAINTIES

Data for SRB Thrust Terminal Mismatch

WTR						
Time t	Left Motor			Right Motor		
	Thrust (lbf) T_L	Pressure (lb/ft^2) P_L	Flowrate (lb/s) W_L	Thrust (lbf) T_R	Pressure (lb/ft^2) P_R	Flowrate (lb/s) W_R
108.1	1,751,251.	416.6	6462.3	1,542,851.	392.7	6085.4
109.4	1,742,650.	396.3	6158.1	1,299,350.	349.9	5446.9
110.7	1,555,656.	360.2	5611.3	1,034,654.	274.9	4301.9
112.0	1,275,702.	295.3	4618.8	723,601.	195.4	3076.0
113.3	922,845.	215.4	3383.9	471,845.	133.6	2114.0
114.6	714,128.	152.3	2405.4	263,128.	100.3	1596.1
115.9	481,376.	106.5	1693.2	193,676.	69.8	1145.1
117.2	364,886.	80.5	1317.9	139,386.	47.4	784.4
118.5	266,183.	56.4	930.3	95,086.	29.8	498.8
119.8	183,083.	36.3	604.0	58,680.	18.7	315.9
121.1	114,341.	22.1	373.3	36,580.	11.6	200.7
122.7	58,656.	13.1	224.3	25,411.	5.7	103.6
124.9	22,134.	4.9	90.8	8,046.	1.8	38.1
ETR						
107.4	1,759,907.	419.0	6502.2	1,551,507.	399.3	6026.1
108.7	1,752,724.	398.8	6196.8	1,309,424.	352.2	5481.8
110.0	1,564,334.	362.6	5647.2	1,043,336.	276.8	4380.1
111.3	1,282,280.	293.3	4648.0	730,180.	197.0	3095.5
112.6	927,494.	216.8	3405.5	476,496.	134.5	2127.8
113.9	674,648.	153.3	2420.8	309,146.	101.0	1606.6
115.2	483.604.	107.2	1704.0	195,902.	70.2	1152.4
116.5	366,575.	81.0	1326.3	141,071.	47.7	789.5
117.8	262,283.	55.1	909.0	91,182.	28.9	485.2
119.1	180,313.	35.2	587.1	55,912.	18.3	308.9
120.4	114,836.	22.2	375.7	37,067.	11.7	201.9
121.93	59,044.	13.2	225.7	25,581.	5.7	104.2
124.15	24,680.	5.5	100.8	8,046.	1.8	38.1

Derivation of the SRB Thrust Vector Angular Misalignment Error

1) Cone 1/2 angle = 1.0 deg

2) SRB/ET centerline misalignment = 0.12 deg

3) Electronics/actuator errors = 0.3 deg

RCS 1.0509

Average RSS of 2 SRBs = $\sqrt{2}/2$ = x 0.707

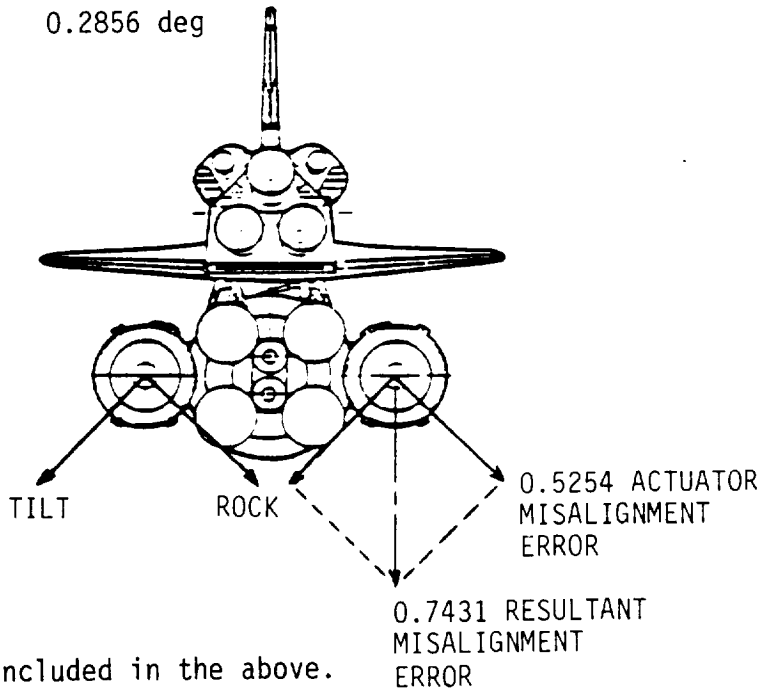
Resultant misalignment error = 0.7431

Component of the actuator misalignment in the pitch or yaw plane (cosine of 45°) = x 0.707

0.5254 deg.

0.5254 left, right (tilt, rock) per motor

Modified to 70% of 2.33σ 0.2856 deg



"Nozzle Pivot Center Shift" is included in the above.

Derivation of SSME Thrust Vector
Angular Misalignments (Pitch, Yaw)

		Engine #1		Engine #2		Engine #3	
		P	Y	P	Y	P	Y
1)	Actuator System (±)	.534	.441	.537	.606	.537	.455
2)	15% of Nominal Thrust (±) Structure Deformation	.098	.060	.076	.015	.249	.071
3)	Combination of:						
	a) ±0.25° installation tolerance b) ±0.546° dynamic thrust vector (includes ±0.6 in. eccentricity) c) ±0.09° ET ℓ misalignment } = ±0.607° (P, Y)						
4)	Nominal thrust structure deformation (deterministic)	+.654	-.399	+.510	+.098	+1.663	-.476

5) RSS (1), (2), and (3); add (4) per engine; then RSS 3 engines and divide by 3

6) Results

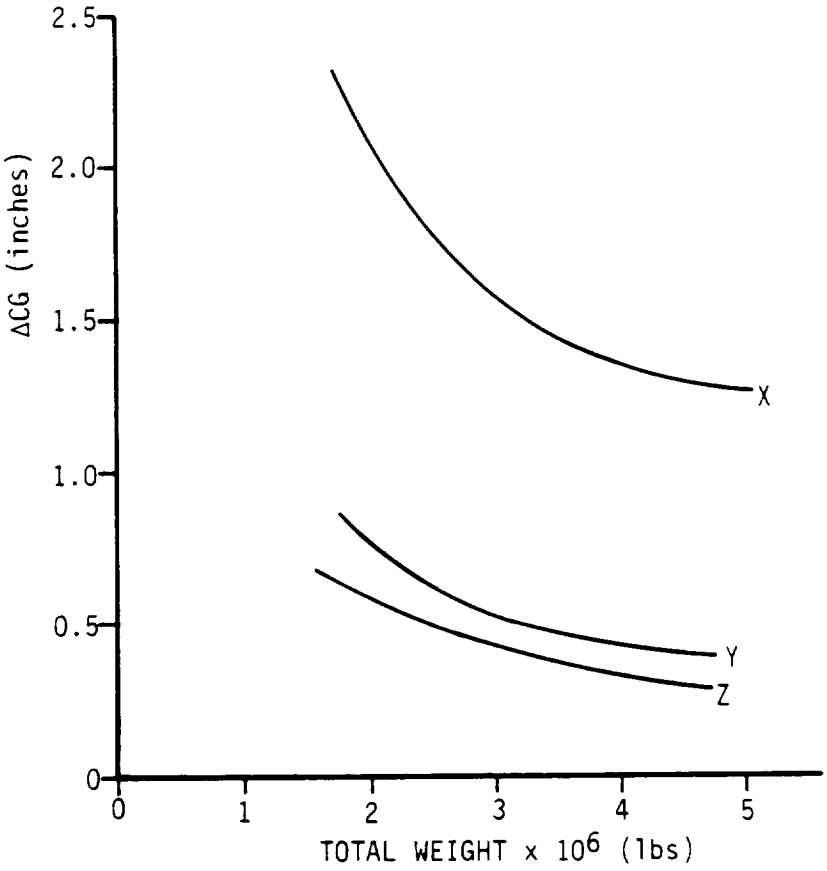
P	Y
+1.066	+.353
-0.115	-.618

7) Use largest of pitch, yaw values for simulation; P = ±1.066, Y = ±.618

8) 70% of 2.33σ results in P = ±0.5795, Y = ±0.336

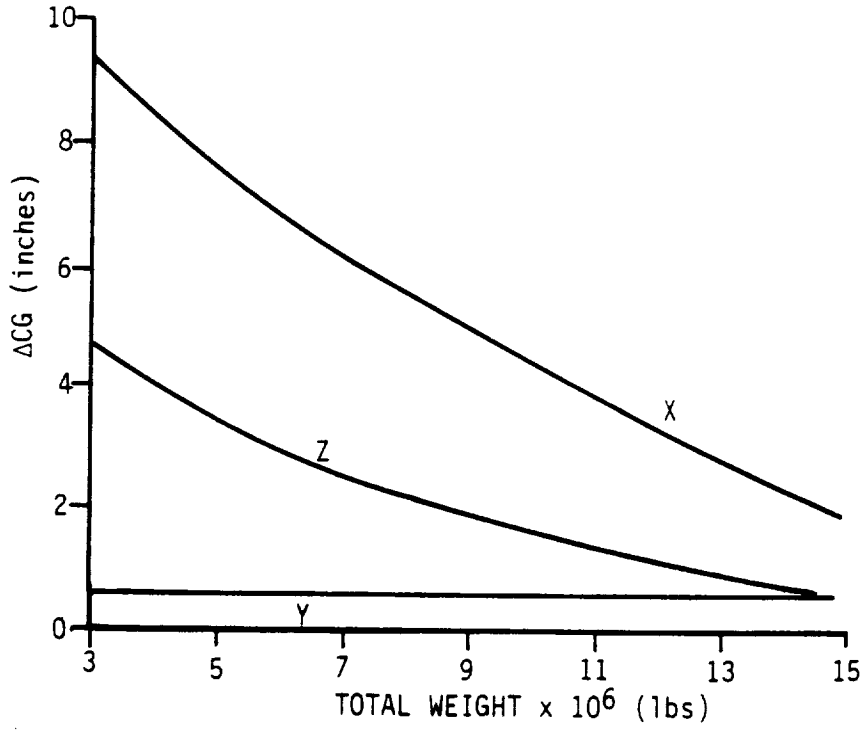
NOTE: (1), (2), and (3) are dependent on gimbal angle deflections (flight averaged).

1st Stage CG 3σ Uncertainties*



*Values used for this analysis reflect 70% of 2.33σ which results in multiplication of these values by a 0.54367 multiplication factor.

2nd Stage CG 3σ Uncertainties*



*Values used for this analysis reflect 70% of 2.33σ which results in multiplication of these values by a 0.54367 multiplication factor.

Derivation of Accelerometer Errors

1) ACCURACY		Normal (g's)	Lateral (g's)
a) AA null offset (includes vibration)		0.021	0.014
b) AA noise		0.020	0.020
c) MDM noise		0.024	0.006
d) MDM bias		0.025	0.006
e) AA scale factor P (0.028 x 0.20 g), Y (0.032 x 0.004 g)		0.006	0.000
RSS	=	±0.046	±0.026
f) MDM quantization (add 1/2 value)		0.004	0.001
Σ	=	±0.050	±0.027
Apply mid-select (x 0.67)	=	±0.034	±0.018
70% of 2.33σ		±0.0185	±0.0098

2) ALIGNMENT		Normal (deg)	Lateral (deg)
a) Accel. to AA axes b) AA axes to body axes	=	±0.43	±0.43
c) Bulkhead flexure (deterministic)		0	±0.23
		±0.43°	±0.66°
Apply mid-select (x 0.67)	=	±0.288°	±0.442°
70% of 2.33σ		±0.1566°	±0.2403°

Derivation of Rate Gyro Assembly Errors (Pitch, Yaw)

ACCURACY:

			DEG/S
a)	DC zero offset -		
		Static	= 0.10
		Vibrational	= 0.15
b)	Threshold		= 0.02
c)	Hysteresis		= 0.02
d)	Linear acceleration sensitivity (0.05°/S/g)	P	= 0.05 x 0.15 ∿ 0.008
		Y	= 0.05 x 0.002 = 0.0
e)	Linearity		= 0.05
f)	Scale factor	P	= 0.051 x 0.5 = 0.026
		Y	= 0.051 x 0.1 = 0.005
g)	Noise		= 0.05
h)	Angular acceleration sensitivity (0.003 deg/s^2)		= Negligible
i)	Zero offset due to temperature variations		= 0.002 x 40 - 0.08
j)	MDM -		
		Noise	= 0.12
		bias	= 0.12
	RSS	P	= 0.273
		Y	= 0.271
k)	MDM quantization x 1/2		= 0.059
	SUM	P	= 0.332
		Y	= 0.330
	Apply mid-select factor (0.67)		= 0.222
	Average RSS of 2 SRBs (x$\sqrt{2}$/2)		= 0.157
	70% of 2.33σ		= 0.085

NOTE: RGA misalignment (±0.744 deg) neglected

3σ MECO Targeting Errors (±)

NORMAL	NAV	G&C	RSS	(70% of 2.33σ)
ΔV (fps)	9.27	7.95	12.21	6.64
Δγ (deg)	0.041	0.06	0.073	0.039
Δr (ft)	2016.0	1155.0	2323.0	1262.9
Δi (deg)	0.103	--	0.103	0.056
AOA				
ΔV (fps)	10.21	SAME	12.94	7.04
Δγ (deg)	0.04	AS	0.072	0.039
Δr (ft)	3148.0	ABOVE	3353.0	1822.9
Δi (deg)	0.084		0.084	0.046
RTLS				
ΔV (fps)	10.04	SAME	12.88	7.00
Δγ (deg)	0.038	AS	0.071	0.039
Δr (ft)	2310.0	ABOVE	2583.0	1404.3

NOTES: 1) The variables are treated independently

2) Nodal errors neglected

(Reverse Blank)

APPENDIX D—COMPUTER PROGRAM FOR DISPERSION ANALYSIS

The following ASCII Fortran computer program has been written to facilitate the RSS analysis performed on the dispersed set of trajectories. Also provided via this program is a tabular listing of the time ordered dispersion as a function of the dispersion type. Output of this program has been compiled in Appendices F and G.

```
ILYONSRIN207*TYPE$(0).RSS
      1            PARAMETER ND=46
      2            CHARACTER*6 IT(2),NAME(6)
      3            CHARACTER*16 JT(5)
      4            CHARACTER*9 WIND(2)
      5            CHARACTER*10 FORM(19),TYPE(10)
      6            DIMENSION STORE(50,ND,6,2),ICT(ND,2),VAR(12),RSSP(50,6),RSSN(50,6)
      7           *,DISP(15),TIME(50),IL(6),IU(6)
      8      C
      9            DATA IL,IU/1,2,13,21,30,38,1,12,20,29,37,46/
     10            DATA NRMAX/15800/
     11            DATA WIND/'RQHW',' HW '/
     12            DATA IT/' POS  ',' NEG  '/
     13            DATA NAME/' AHI  ','ALPHA ',' BETA ',' DYNP ','Q-ALP ','Q-BETA'/
     14            DATA JT/'  PROPULSION   ','AERO/ENVIRONMENT',' MASS PROPERTIES',
     15           *'     GN/C      ','    COMPOSITE   '/
     16            DATA TYPE/'(4X,4HTIME',',3X,7HNOM ','VAL      ',',3X,I2,2X ',
     17           *',7H *RSS  ',',7HNOM+RSS',',7H -RSS ',',7HNOM-RSS',')        ',
     18           *',7X       '/
     19      C
     20      C     TAPE 08 CONTAINS ALL DISPERSION RUNS AND THE FIRST READ IS CODED
     21      C     TO DEFINE TYPE OF DISPERSION
     22      C
     23            DEFINE FILE 8(16000,13,U,IP)
     24            LVAR=5100
     25            LR=15801
     26            WRITE(8'LR) VAR,LVAR
     27            NR=1
     28            ISTOP=0
     29            IPL=0
     30            FORM(1)=TYPE(1)
     31            FORM(2)=TYPE(2)
     32            FORM(3)=TYPE(3)
     33            FORM(19)=TYPE(9)
     34         10 READ(8'NR,ERR=30) VAR,IVAR
     35            IF(IVAR.LE.0.OR.IVAR.GE.7000) GO TO 15
     36            IF(NR.EQ.8201.OR.NR.EQ.8401) GO TO 15
     37            ITYPE=IVAR/1000
     38            JTYPE=(IVAR-ITYPE*1000)/10
     39            KTYPE=IVAR-ITYPE*1000-JTYPE*10
     40            JTYPE=IL(ITYPE+1)+JTYPE-1
     41            K=KTYPE+1
     42            ICT(JTYPE,K)=1
     43            IA=0
     44            NR=NR+IPL
     45            GO TO 20
     46         15 NR=NR+200
     47            IF(NR.GE.NRMAX) GO TO 40
     48            GO TO 10
     49      C
     50      C     ********************************************************************
     51      C     ITYPE - DISPERSION TYPE
     52      C             0, NOMINAL
     53      C             1, PROPULSION
     54      C             2, AERO/ENVIRONMENT
     55      C             3, MASS PROPERTY
     56      C             4, GN/C
```

```
C            5, COMPOSITE TRAJECTORIES
C     ********************************************************************
C     JTYPE - SUBGROUPING
C       01  NOMINAL
C     ********************************************************************
C          PROP                              AERO/ENV
C       01  SRM WAT                      01  CA
C       02  SRM TERM THR MISMATCH        02  CN
C       03  SRM ISP                      03  CM
C       04  SRM THR MISMATCH            04  CY
C       05  SRM ISP MISMATCH            05  CNB
C       06  SRM THR MISALIGNMENT (P)    06  CL
C       07  SRM THR MISALIGNMENT (Y)    07  BASE FORCE
C       08  SSME VAC THR                 08  ATMOSPHERE
C       09  SSME VAC ISP
C       10  SSME THR MISALIGN (P)
C       11  SSME THR MISALIGN (Y)
C
C     ********************************************************************
C          MASS PROP                         GN/C
C       01  ET PROP WT                   01  ACCEL ERROR (NORMAL)
C       02  SRB PROP WT                  02  ACCEL ERROR (LATERAL)
C       03  SRB INERT WT                 03  RATE GYRO (NORMAL)
C       04  2ND STAGE INERT WT          04  RATE GYRO (LATERAL)
C       05  VEH CG (X 1ST STAGE)        05  IMU PLATFORM (PITCH)
C       06  VEH CG (Y 1ST STAGE)        06  IMU PLATFORM (YAW)
C       07  VEH CG (Z 1ST STAGE)        07  IMU PLATFORM (ROLL)
C       08  VEH CG (X 2ND STAGE)        08  MECO TARG
C       09  VEH CG (Z 2ND STAGE)
C
C     ********************************************************************
C     KTYPE - DISPERSION TYPE
C             0, POSITIVE
C             1, NEGATIVE
C
C     ********************************************************************
   20 NR=NR+1
      READ(8'NR,ERR=30) VAR,IVAR
      IF(IVAR.NE.9999) GO TO 25
      ISTOP=1
   22 NR=200*(NR/200+1)+1
      IA=IA-1
      IF(NR.GE.NRMAX) GO TO 40
      GO TO 10
   25 CONTINUE
      IA=IA+1
      IF(IA.GT.50) GO TO 22
      IF(JTYPE.EQ.1) TIME(IA)=VAR(1)
      IF(ABS(TIME(IA)-VAR(1)).LT..5) GO TO 26
      STORE(IA,JTYPE,1,K)=STORE(IA,1,1,1)
      STORE(IA,JTYPE,2,K)=STORE(IA,1,2,1)
      STORE(IA,JTYPE,3,K)=STORE(IA,1,3,1)
      STORE(IA,JTYPE,4,K)=STORE(IA,1,4,1)
      STORE(IA,JTYPE,5,K)=STORE(IA,1,5,1)
      STORE(IA,JTYPE,6,K)=STORE(IA,1,6,1)
      GO TO 25
   26 CONTINUE
```

```
      STORE(IA,JTYPE,1,K)=VAR(4)
      STORE(IA,JTYPE,2,K)=VAR(2)
      STORE(IA,JTYPE,3,K)=VAR(3)
      STORE(IA,JTYPE,4,K)=VAR(5)
      STORE(IA,JTYPE,5,K)=VAR(5)+VAR(2)
      STORE(IA,JTYPE,6,K)=VAR(5)+VAR(3)
      GO TO 20
   30 WRITE(6,35)
   35 FORMAT(1X,' ERROR IN READING FILE 8')
      STOP
   40 IPL=IPL+50
      NDM1=37
      DO 50 I=1,IA
      DO 50 K=1,6
      RSSP(I,K)=0.
      RSSN(I,K)=0.
      DO 50 J=2,NDM1
      IF(J.EQ.20) GO TO 50
      DS1=0.
      DS2=0.
      IF(ICT(J,1).NE.1) GO TO 45
      DS1=STORE(I,J,K,1)-STORE(I,1,K,1)
      DS12=DS1+DS1
      IF(DS1.GT.0.) RSSP(I,K)=RSSP(I,K)+DS12
      IF(DS1.LT.0.) RSSN(I,K)=RSSN(I,K)+DS12
   45 IF(ICT(J,2).NE.1) GO TO 50
      DS2=STORE(I,J,K,2)-STORE(I,1,K,1)
      DS22=DS2+DS2
      IF(DS1*DS2.GT.0.) GO TO 46
      IF(DS2.GT.0.) RSSP(I,K)=RSSP(I,K)+DS22
      IF(DS2.LT.0.) RSSN(I,K)=RSSN(I,K)+DS22
      GO TO 50
   46 IF(DS1.GT.0.) RSSP(I,K)=RSSP(I,K)-DS12
      IF(DS1.LT.0.) RSSN(I,K)=RSSN(I,K)-DS12
      DS3=AMAX1(DS12,DS22)
      IF(DS1.GT.0.) RSSP(I,K)=RSSP(I,K)+DS3
      IF(DS1.LT.0.) RSSN(I,K)=RSSN(I,K)+DS3
   50 CONTINUE
      DO 60 I=1,IA
      DO 60 K=1,6
      RSSP(I,K)=SQRT(RSSP(I,K))
      RSSN(I,K)=SQRT(RSSN(I,K))
   60 CONTINUE
C
C     WRITE TABLE OUTPUT
C
      DO 80 L=2,6
      II=IL(L)
      JJ=IU(L)
      LM1=L-1
      DO 80 J=1,6
      DO 80 K=1,2
      DO 80 M=1,IA
      IF(L.LT.6) GO TO 65
      KK=2+(K-1)
      DISP(1)=STORE(M,38,J,1)-STORE(M,1,J,1)
      DISP(2)=RSSP(M,J)
```

```
171            DISP(3)=STORE(M,20,J,2)-STORE(M,1,J,1)
172            IF(DISP(3).LT.0.) DISP(3)=STORE(M,20,J,1)-STORE(M,1,J,1)
173            IF(DISP(3).LT.0.) DISP(3)=0.
174            DISP(4)=STORE(M,KK+39,J,1)-STORE(M,1,J,1)
175            DISP(5)=SQRT(DISP(3)*DISP(3)+DISP(4)*DISP(4))
176            DISP(6)=DISP(2)+DISP(5)
177            DISP(7)=STORE(M,KK+40,J,1)-STORE(M,1,J,1)
178            DISP(8)=STORE(M,KK+40,J,1)
179            IF(M.EQ.1) WRITE(6,340) JT(LM1),NAME(J),WIND(K)
180            WRITE(6,350) TIME(M),STORE(M,1,J,1),(DISP(I),I=1,8)
181            GO TO 80
182         65 CONTINUE
183            NN=0
184            DO 70 N=II,JJ
185            NN=NN+1
186            DISP(NN)=0.
187            IF(ICT(N,K).EQ.0) GO TO 70
188            DISP(NN)=STORE(M,N,J,K)-STORE(M,1,J,1)
189         70 CONTINUE
190            IF(M.NE.1) GO TO 75
191            DO 72 I=4,18
192         72 FORM(I)=TYPE(10)
193            DO 73 I=1,NN
194         73 FORM(I+3)=TYPE(4)
195            DO 74 I=1,4
196         74 FORM(I+NN+3)=TYPE(I+4)
197            WRITE(6,300) JT(LM1),NAME(J),IT(K)
198            WRITE(6,315)
199            WRITE(6,FORM) (I,I=1,NN)
200            WRITE(6,315)
201         75 CONTINUE
202            TP=STORE(M,1,J,1)+RSSP(M,J)
203            TN=STORE(M,1,J,1)-RSSN(M,J)
204            WRITE(6,320) TIME(M),STORE(M,1,J,1),(DISP(I),I=1,NN),
205           *RSSP(M,J),TP,RSSN(M,J),TN
206         80 CONTINUE
207            NR=1
208            LVAR=0
209            DO 90 I=1,IA
210            LR=LR+1
211            WRITE(8*LR) TIME(I),(RSSP(I,J),RSSN(I,J),J=1,6)
212         90 CONTINUE
213            IF(IPL.LT.200.AND.ISTOP.EQ.0) GO TO 10
214            LR=LR+1
215            LVAR=9999
216            WRITE(8*LR) VAR,LVAR
217            STOP
218      C
219        100 FORMAT(3I2,I1,I2,I1)
220        200 FORMAT(7E13.8)
221        300 FORMAT(1H1/60X,A16/115X,2A6)
222        310 FORMAT(1X,65(2H *)/4X,'TIME',3X,'NOM VAL',12(3X,I2,2X))
223        315 FORMAT(1X,65(2H *))
224        320 FORMAT(1X,F8.1,17F7.1)
225        330 FORMAT(1H )
226        340 FORMAT(1H1/32X,A16/75X,A6/1X,41(2H *)/12X,'NOMINAL',5X,'SYSTEM',
227           *12X,'ENVIRONMENT',8X,'MAXIMUM HEATING TRAJ'/4X,'TIME',5X,'VALUE',
```

```
      *3X,'COMP',4X,'PSS',4X,'ATMOS',3X,A4,4X,'RSS',4X,'RSS',4X,
      *'DISP',4X,'VALUE'/1X,41(2H *))
  350 FORMAT(1X,10F8.1)
      END
```

APPENDIX E—COMPUTER FILE INPUT/OUTPUT REQUIREMENTS

Two resident files associated with Mission 1 and Mission 4 are provided on the MSFC Univac computer system. These files are direct access files which contain time ordered data associated with all trajectories which have been simulated in this study. This appendix has been written to aid the future use of these files by defining their input/output requirements.

The structure of each file is the same for both missions and therefore the input/output requirements can be treated in a generic fashion. A file is made up of 16,000 records and each record consists of 13 words. In a Fortran program, the programmer must have the following statement before any executable statements:

'DEFINE FILE N(16000,13,U,IP)'

The letter N is given a numerical value depending on the programmer's choice of file numbers. This file will be identified by proper control cards to assign the chosen numerical value to the stored file. The 16000 and 13 refer to the number of elements and words per element, respectively. The Univac programmer's manual should be consulted for the additional parameters on this statement.

The Fortran read statement for this file is the following:

'READ(N'NR)VAR,IVAR'

where

N - file number
NR - number of requested record (1 to 16000)
VAR - a storage array consisting of 12 parameters:
(1) - time from liftoff (s)
(2) - angle of attack (α) (deg)
(3) - sideslip angle (β) (deg)
(4) - aerodynamic heating indicator (BTU)
(5) - dynamic pressure (lb/ft^2)

(6) - altitude (ft)

(7) - earth relative velocity (ft/s)

(8) - airspeed (ft/s)

(9) - radius from the earth's center (ft)

(10) - inertial velocity (ft/s)

(11) - inertial flight path angle (γ) (deg)

(12) - Mach number

IVAR - multipurpose variable flag used to specify the contents of the records. (See Table E-1)

All trajectory cases are stored within a maximum of 200 records and therefore the start of each trajectory will begin at some multiple of 200 plus 1. The normal mode of reading this data is to first interrogate the starting record which indicates by the value of IVAR the type of trajectory. Data can be extracted from the file by continued reading of sequential records until the value of IVAR is equal to 9999 (which specifies the end of the trajectory data).

The only data on the file that do not correspond to the above definition of the VAR array are associated with IVAR = 5100. In this case, the VAR array is defined in the following manner:

VAR (1) - time from liftoff (s)

(2) - positive RSS dispersion for aerodynamic heating indicator

(3) - negative RSS dispersion for aerodynamic heating indicator (value is positive in sign)

(4) - positive RSS dispersion for angle of attack

(5) - negative RSS dispersion for angle of attack

(6) - positive RSS dispersion for sideslip angle

(7) - negative RSS dispersion for sideslip angle

(8) - positive RSS dispersion for dynamic pressure

(9) - negative RSS dispersion for dynamic pressure

Table E-1. Interpretation of IVAR Variables

0000	VAR contains data
9999	Terminal point has been reached for this trajectory
___0	Positive dispersion (the parameter is perturbed in a positive sense)
___1	Negative dispersion (the parameter is perturbed in a negative sense)
0010	The following data contain the nominal trajectory
1___	The following data are related to propulsion dispersion parameters
101_	SRM web action time
102_	SRM terminal thrust mismatch
103_	SRM specific impulse
104_	SRM steady state thrust mismatch
105_	SRM steady state specific impulse mismatch
106_	SRM thrust misalignment (pitch)
107_	SRM thrust misalignment (yaw)
108_	SSME vacuum thrust
109_	SSME vacuum specific impulse
110_	SSME thrust misalignment (pitch)
111_	SSME thrust misalignment (yaw)
2___	The following data are related to aero/environment dispersion parameters
201_	Axial force coefficient
202_	Normal force coefficient
203_	Pitch moment coefficient
204_	Side force coefficient

Table E-1. Interpretation of IVAR Variables (Continued)

	205_	Yaw moment coefficient
	206_	Roll moment coefficient
	207_	Base force
	208_	Atmosphere (± density variations)
3___		The following data are related to mass properties dispersion parameters
	301_	External tank propellant weight
	302_	SRB propellant weight
	303_	SRB inert weight
	304_	Second stage inert weight
	305_	First stage longitudinal center of gravity
	306_	First stage lateral center of gravity
	307_	First stage normal center of gravity
	308_	Second stage longitudinal center of gravity
	309_	Second stage normal center of gravity
4___		The following data are related to GN&C dispersion parameters
	401_	Accelerometer error (pitch)
	402_	Accelerometer error (yaw)
	403_	Rate gyro (pitch)
	404_	Rate gyro (yaw)
	405_	Inertial measurement unit (IMU) platform error (pitch)
	406_	IMU platform error (yaw)
	407_	IMU platform error (roll)
	408_	MECO targeting

Table E-1. Interpretation of IVAR Variables (Concluded)

5___	The following data are related to the composite and wind related trajectories
501_	Composite (System Dispersion only)
502_	Right Quartering Head wind (RQHW) dispersion (95% design)
503_	Maximum aerodynamic heating trajectory w/RQHW
504_	Head wind (HW) dispersion (95% design)
505_	Maximum aerodynamic heating trajectory w/HW
5100	The following data are time ordered RSS values for positive and negative dispersions of aerodynamic heating indicator, angle of attack, sideslip angle, dynamic pressure, the product of dynamic pressure and angle of attack, and the product of dynamic pressure and sideslip angles

(10) - positive RSS dispersion for the product of dynamic pressure and angle of attack

(11) - negative RSS dispersion for the product of dynamic pressure and angle of attack

(12) - positive RSS dispersion for the product of dynamic pressure and sideslip angle

(13) - negative RSS dispersion for the product of dynamic pressure and sideslip angle

(Reverse Blank)

APPENDIX F—MISSION 1 (ETR)

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6.	7	8	9	10	11	+RSS	NOM+RSS	-RSS	AMI POS NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
22.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
27.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
29.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.2
30.0	.3	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.2
31.0	.3	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3
32.0	.4	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3
33.0	.4	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3
34.0	.5	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4
35.0	.6	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	.1	.4
36.0	.6	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.5
37.0	.7	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.6
38.0	.8	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	.2	.7
39.0	.9	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.0	.2	.7
40.0	1.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.2	.2	.8
41.0	1.1	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.3	.2	.9
42.0	1.3	-.2	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.1	1.4	.2	1.0
43.0	1.4	-.2	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.1	1.5	.3	1.1
44.0	1.5	-.3	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.1	1.7	.3	1.2
45.0	1.7	-.3	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.1	1.8	.3	1.4
46.0	1.8	-.3	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.1	2.0	.3	1.5
47.0	2.0	-.3	.0	.0	-.1	-.1	.0	.0	.0	.0	.0	.0	.1	2.1	.4	1.6
48.0	2.1	-.3	.0	.0	-.1	-.1	.0	.0	.0	.0	.0	.0	.1	2.3	.4	1.7
49.0	2.3	-.4	.0	.0	-.1	-.2	.0	.0	.0	.0	.0	.0	.2	2.5	.4	1.9

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
22.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.1
26.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.1
27.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
29.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.2
30.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.2
31.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3
32.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3
33.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3
34.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4
35.0	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	.1	.4
36.0	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.5
37.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.6
38.0	.8	.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.1	.9	.2	.7
39.0	.9	.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.1	1.0	.2	.7
40.0	1.0	.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.1	1.2	.2	.8
41.0	1.1	.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.1	1.3	.2	.9
42.0	1.3	.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.1	1.4	.2	1.0
43.0	1.4	.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.1	1.5	.3	1.1
44.0	1.5	.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.1	1.7	.3	1.2
45.0	1.7	.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.1	1.8	.3	1.4
46.0	1.8	.1	.0	.0	-.1	-.1	.0	.0	.0	.0	.0	.0	.1	2.0	.3	1.5
47.0	2.0	.1	.0	.0	-.1	-.1	.0	.0	.0	.0	.0	.0	.1	2.1	.4	1.6
48.0	2.1	.1	.0	-.1	-.1	-.1	.0	.0	.0	.0	.0	.0	.1	2.3	.4	1.7
49.0	2.3	.1	.0	-.1	-.1	-.1	.0	.0	.0	.0	.0	.0	.2	2.5	.4	1.9

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	AHI POS NOM-RSS
50.0	2.5	-.4	.0	.1	-.1	-.2	.0	.0	.0	.0	.0	.0	.2	2.6	.5	2.0
51.0	2.7	-.4	.0	.1	-.1	-.2	.0	.0	.0	.0	.0	.0	.2	2.8	.5	2.2
52.0	2.9	-.4	.0	.1	-.1	-.2	.0	.0	.0	.0	.0	.0	.2	3.0	.5	2.3
53.0	3.1	-.5	.0	.1	-.1	-.2	.0	.0	.0	.0	.0	.0	.2	3.2	.6	2.5
54.0	3.3	-.5	.0	.1	-.1	-.2	.0	.0	.0	.0	.0	.0	.2	3.5	.6	2.7
55.0	3.5	-.5	.0	.1	-.1	-.3	.0	.0	.0	.0	.0	.0	.2	3.7	.6	2.8
56.0	3.7	-.6	.0	.1	-.1	-.3	.0	.0	.0	.0	.0	.0	.2	3.9	.7	3.0
57.0	3.9	-.6	.0	.1	-.1	-.3	.0	.0	.0	.0	.0	.0	.2	4.2	.7	3.2
58.0	4.2	-.6	.0	.1	-.1	-.3	.0	.0	.0	.0	.0	.0	.3	4.4	.8	3.4
59.0	4.4	-.7	.0	.1	-.1	-.3	.0	.0	.0	.0	.0	.0	.3	4.7	.8	3.6
60.0	4.7	-.7	.0	.1	-.1	-.3	.0	.0	.0	.0	.0	.0	.3	5.0	.9	3.8
61.0	5.0	-.8	.0	.1	-.2	-.4	.0	.0	.0	.0	.0	.0	.4	5.4	.9	4.1
62.0	5.3	-.8	.0	.1	-.2	-.4	.0	.0	.0	.0	.0	.0	.4	5.7	1.0	4.3
63.0	5.6	-.9	.0	.1	-.2	-.4	.0	.0	.0	.0	.0	.0	.4	6.1	1.1	4.6
64.0	6.0	-1.0	.0	.1	-.2	-.4	.0	.0	.0	.0	.0	.0	.5	6.5	1.2	4.8
65.0	6.4	-1.1	.0	.1	-.2	-.4	-.1	.0	.0	.0	.0	.0	.6	7.0	1.3	5.1
66.0	6.8	-1.2	.0	.2	-.2	-.5	-.1	.0	.0	.0	.0	.0	.6	7.4	1.4	5.4
67.0	7.3	-1.3	.0	.2	-.2	-.5	-.1	.0	.0	.0	.0	.0	.7	8.0	1.5	5.8
68.0	7.8	-1.4	.0	.2	-.2	-.5	-.1	.0	.0	.0	.0	.0	.8	8.6	1.6	6.2
69.0	8.4	-1.5	.0	.2	-.2	-.6	-.1	.0	.0	.0	.0	.0	.8	9.2	1.8	6.6
70.0	9.0	-1.6	.0	.2	-.2	-.6	-.1	.0	.0	.0	.0	.0	.9	9.9	1.9	7.0
71.0	9.6	-1.8	.0	.2	-.2	-.6	-.1	.0	.1	.0	.0	.0	1.1	10.7	2.1	7.5
72.0	10.3	-1.9	.0	.3	-.2	-.7	-.1	.0	.1	.0	.0	.0	1.2	11.5	2.3	8.1
73.0	11.1	-2.1	.0	.3	-.2	-.7	-.1	.0	.1	.0	.0	.0	1.3	12.5	2.5	8.6
74.0	12.0	-2.4	.0	.3	-.2	-.8	-.1	.0	.1	.0	.0	.0	1.5	13.5	2.7	9.3
75.0	13.0	-2.6	.0	.3	-.2	-.8	-.1	.0	.1	.0	.0	.0	1.6	14.6	3.0	10.0
76.0	14.0	-2.8	.0	.4	-.2	-.8	-.1	.0	.1	.0	-.1	.0	1.8	15.8	3.2	10.8
77.0	15.1	-3.0	.0	.4	-.2	-.9	-.2	.0	.1	.0	-.1	.0	1.9	17.0	3.5	11.6
78.0	16.3	-3.3	.0	.4	-.1	-.9	-.2	.0	.1	.0	-.1	.0	2.1	18.4	3.8	12.5
79.0	17.6	-3.5	.0	.4	-.1	-1.0	-.2	.0	.1	.0	-.1	.0	2.3	19.9	4.1	13.5
80.0	19.0	-3.8	.0	.5	-.1	-1.0	-.2	.0	.1	.0	-.1	.0	2.5	21.4	4.3	14.6
81.0	20.5	-4.0	.0	.5	-.1	-1.1	-.3	.0	.1	.0	-.1	.0	2.6	23.1	4.6	15.8
82.0	22.0	-4.3	.0	.5	-.1	-1.1	-.3	.0	.1	.0	-.1	.0	2.8	24.8	5.0	17.1
83.0	23.7	-4.6	.0	.6	-.1	-1.1	-.3	.0	.1	.0	-.1	.0	3.0	26.7	5.3	18.4
84.0	25.4	-4.8	.0	.6	-.1	-1.2	-.4	.0	.1	.0	-.1	.0	3.2	28.6	5.6	19.8
85.0	27.2	-5.1	.0	.6	.0	-1.2	-.4	.0	.1	.0	-.1	.0	3.4	30.6	5.9	21.3
86.0	29.1	-5.4	.0	.6	.0	-1.3	-.5	.0	.2	.0	-.1	.0	3.5	32.7	6.2	22.9
87.0	31.1	-5.6	.0	.7	.0	-1.3	-.5	.0	.2	.0	-.2	.0	3.7	34.8	6.5	24.6
88.0	33.2	-5.9	.0	.7	.0	-1.3	-.5	.0	.2	.0	-.2	.0	3.9	37.1	6.8	26.3
89.0	35.3	-6.2	.0	.7	.1	-1.4	-.6	.0	.2	.0	-.2	.0	4.1	39.4	7.2	28.1
90.0	37.5	-6.4	.0	.8	.1	-1.4	-.6	.0	.2	.0	-.2	.0	4.3	41.9	7.5	30.0
91.0	39.8	-6.7	.0	.8	.1	-1.4	-.7	.0	.2	.0	-.2	.0	4.6	44.4	7.8	32.0
92.0	42.2	-6.9	.0	.8	.2	-1.4	-.8	.0	.2	.0	-.3	.0	4.8	47.0	8.2	34.0
93.0	44.6	-7.2	.0	.8	.2	-1.5	-.8	.0	.2	.0	-.3	.0	5.0	49.6	8.5	36.2
94.0	47.2	-7.4	.0	.9	.2	-1.5	-.9	.0	.2	.0	-.3	.0	5.2	52.4	8.8	38.4
95.0	49.7	-7.7	.0	.9	.3	-1.5	-.9	.0	.2	.0	-.3	.0	5.4	55.2	9.1	40.6
96.0	52.4	-7.9	.0	.9	.3	-1.5	-1.0	.0	.2	.0	-.4	.0	5.6	58.0	9.5	42.9
97.0	55.1	-8.2	.0	.9	.3	-1.5	-1.1	.0	.2	.0	-.4	.0	5.9	61.0	9.8	45.3
98.0	57.9	-8.4	.0	1.0	.4	-1.5	-1.2	.0	.2	.0	-.4	.0	6.1	63.9	10.1	47.8
99.0	60.7	-8.6	.0	1.0	.4	-1.5	-1.2	.0	.3	.0	-.4	.0	6.3	67.0	10.4	50.3

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	AHI NEG NOM-RSS
50.0	2.5	.1	.0	-.1	-.1	-.1	.0	.0	.0	.0	.0	.0	.2	2.6	.5	2.0
51.0	2.7	.1	.0	-.1	-.1	-.1	.0	.0	.0	.0	.0	.0	.2	2.8	.5	2.2
52.0	2.9	.1	.0	-.1	-.2	-.1	.0	.0	.0	.0	.0	.0	.2	3.0	.5	2.3
53.0	3.1	.1	.0	-.1	-.2	-.1	.0	.0	.0	.0	.0	.0	.2	3.2	.6	2.5
54.0	3.3	.1	.0	-.1	-.2	-.1	.1	.0	.0	.0	.0	.0	.2	3.5	.6	2.7
55.0	3.5	.2	.0	-.1	-.2	-.1	.1	.0	.0	.0	.0	.0	.2	3.7	.6	2.8
56.0	3.7	.2	.0	-.1	-.2	-.1	.1	.0	.0	.0	.0	.0	.2	3.9	.7	3.0
57.0	3.9	.2	.0	-.1	-.2	-.1	.1	.0	.0	.0	.0	.0	.2	4.2	.7	3.2
58.0	4.2	.2	.0	-.1	-.2	-.1	.1	.0	.0	.0	.0	.0	.3	4.4	.8	3.4
59.0	4.4	.2	.0	-.1	-.2	-.1	.1	.0	.0	.0	.0	.0	.3	4.7	.8	3.6
60.0	4.7	.2	.0	-.1	-.3	-.1	.1	.0	.0	.0	.0	.0	.3	5.0	.9	3.8
61.0	5.0	.2	.0	-.1	-.3	-.1	.1	.0	.0	.0	.0	.0	.4	5.4	.9	4.1
62.0	5.3	.3	.0	-.1	-.3	-.1	.1	.0	.0	.0	.0	.0	.4	5.7	1.0	4.3
63.0	5.6	.3	.0	-.1	-.3	-.2	.1	.0	.0	.0	.0	.0	.4	6.1	1.1	4.6
64.0	6.0	.3	.0	-.2	-.3	-.2	.1	.0	.0	.0	.0	.0	.5	6.5	1.2	4.8
65.0	6.4	.4	.0	-.2	-.4	-.2	.1	.0	-.1	.0	.0	.0	.6	7.0	1.3	5.1
66.0	6.8	.4	.0	-.2	-.4	-.2	.1	.0	-.1	.0	.0	.0	.6	7.4	1.4	5.4
67.0	7.3	.5	.0	-.3	-.4	-.2	.1	.0	-.1	.0	.0	.0	.7	8.0	1.5	5.8
68.0	7.8	.6	.0	-.2	-.5	-.2	.2	.0	-.1	.0	.0	.0	.8	8.6	1.6	6.2
69.0	8.4	.6	.0	-.2	-.5	-.3	.2	.0	-.1	.0	.0	.0	.8	9.2	1.8	6.6
70.0	9.1	.7	.0	-.2	-.6	-.3	.2	.0	-.1	.0	.0	.0	.9	9.9	1.9	7.0
71.0	9.8	.8	.0	-.3	-.6	-.3	.2	.0	-.1	.0	.0	.0	1.1	10.7	2.1	7.5
72.0	10.5	.9	.0	-.3	-.7	-.3	.3	.0	-.1	.0	.0	.0	1.2	11.5	2.3	8.1
73.0	11.1	1.0	.0	-.3	-.7	-.3	.3	.0	-.1	.0	.0	.0	1.3	12.5	2.5	8.6
74.0	12.0	1.1	.0	-.3	-.8	-.4	.3	.0	-.1	.0	.0	.0	1.5	13.5	2.7	9.3
75.0	13.0	1.3	.0	-.4	-.9	-.4	.3	.0	-.1	.0	.0	.0	1.6	14.6	3.0	10.0
76.0	14.1	1.4	.0	-.4	-.9	-.4	.3	.0	-.1	.0	.1	.0	1.8	15.8	3.2	10.8
77.0	15.1	1.5	.0	-.4	-1.0	-.5	.4	.0	-.1	.0	.1	.0	1.9	17.0	3.5	11.6
78.0	16.3	1.7	.0	-.4	-1.1	-.5	.4	.0	-.1	.0	.1	.0	2.1	18.4	3.8	12.5
79.0	17.6	1.8	.0	-.5	-1.1	-.5	.4	.0	-.2	.0	.1	.0	2.3	19.9	4.1	13.5
80.0	19.0	1.9	.0	-.5	-1.2	-.6	.4	.0	-.2	.0	.1	.0	2.5	21.4	4.3	14.6
81.0	20.5	2.0	.0	-.5	-1.3	-.6	.5	.0	-.2	.0	.1	.0	2.6	23.1	4.6	15.8
82.0	22.1	2.2	.0	-.6	-1.3	-.6	.5	.0	-.2	.0	.1	.0	2.8	24.8	5.0	17.1
83.0	23.7	2.3	.0	-.6	-1.4	-.7	.6	.0	-.2	.0	.1	.0	3.0	26.7	5.3	18.4
84.0	25.4	2.4	.0	-.6	-1.5	-.7	.6	.0	-.2	.0	.1	.0	3.2	28.6	5.6	19.8
85.0	27.2	2.5	.0	-.7	-1.6	-.8	.6	.0	-.2	.0	.1	.0	3.4	30.6	5.9	21.3
86.0	29.1	2.6	.0	-.7	-1.6	-.8	.7	.0	-.2	.0	.2	.0	3.5	32.7	6.2	22.9
87.0	31.1	2.7	.0	-.7	-1.7	-.8	.7	.0	-.2	.0	.2	.0	3.7	34.8	6.5	24.6
88.0	33.2	2.8	.0	-.8	-1.8	-.9	.8	.0	-.3	.0	.2	.0	3.9	37.1	6.8	26.3
89.0	35.3	2.9	.0	-.8	-1.8	-.9	.8	.0	-.3	.0	.2	.0	4.1	39.4	7.2	28.1
90.0	37.5	3.0	.0	-.8	-1.9	-1.0	.9	.0	-.3	.0	.2	.0	4.3	41.9	7.5	30.0
91.0	39.8	3.0	.0	-.9	-2.0	-1.0	.9	.0	-.3	.0	.2	.0	4.6	44.4	7.8	32.0
92.0	42.2	3.1	.0	-.9	-2.1	-1.1	1.0	.0	-.3	.0	.3	.0	4.8	47.0	8.2	34.0
93.0	44.6	3.2	.0	-.9	-2.1	-1.1	1.1	.0	-.3	.0	.3	.0	5.0	49.6	8.5	36.2
94.0	47.2	3.2	.0	-1.0	-2.2	-1.1	1.1	.0	-.3	.0	.3	.0	5.2	52.4	8.8	38.4
95.0	49.7	3.3	.0	-1.0	-2.3	-1.2	1.2	.0	-.4	.0	.3	.0	5.4	55.2	9.1	40.6
96.0	52.4	3.3	.0	-1.0	-2.3	-1.2	1.3	.0	-.4	.0	.4	.0	5.6	58.0	9.5	42.9
97.0	55.1	3.3	.0	-1.1	-2.4	-1.2	1.4	.0	-.4	.0	.4	.0	5.9	61.0	9.8	45.3
98.0	57.9	3.3	.0	-1.1	-2.4	-1.3	1.4	.0	-.4	.0	.4	.0	6.1	63.9	10.1	47.8
99.0	60.7	3.3	.0	-1.1	-2.5	-1.3	1.5	.0	-.4	.0	.5	.0	6.3	67.0	10.4	50.3

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	AHI POS NOM-RSS
100.0	63.5	-8.8	.3	1.0	.5	-1.6	-1.3	.0	.3	.0	-.5	.0	6.5	70.1	10.7	52.8
101.0	66.4	-8.9	.0	1.0	.5	-1.6	-1.4	.0	.3	.0	-.5	.0	6.6	73.2	11.0	55.4
102.0	69.4	-9.1	.0	1.1	.5	-1.6	-1.5	-.1	.3	.0	-.5	.0	7.0	76.4	11.3	58.1
103.0	72.4	-9.3	.0	1.1	.5	-1.6	-1.6	-.1	.3	.0	-.6	.0	7.3	79.6	11.6	60.8
104.0	75.4	-9.4	.0	1.1	.6	-1.5	-1.7	-.1	.3	.0	-.6	.0	7.5	82.9	11.9	63.5
105.0	78.4	-9.5	.0	1.1	.6	-1.5	-1.8	-.1	.3	.0	-.7	.0	7.8	86.2	12.2	66.3
106.0	81.5	-9.7	.0	1.1	.6	-1.5	-1.8	-.1	.3	.0	-.7	.0	8.1	89.5	12.4	69.0
107.0	84.6	-9.8	.0	1.1	.6	-1.5	-1.9	-.1	.3	.0	-.7	.1	8.3	92.9	12.7	71.9
108.0	87.7	-9.9	.0	1.2	.7	-1.5	-2.0	-.1	.3	.0	-.8	.1	8.6	96.3	13.0	74.7
109.0	90.8	-9.9	.0	1.2	.7	-1.5	-2.1	-.1	.3	.0	-.8	.1	8.8	99.6	13.2	77.5
110.0	93.9	-10.0	.0	1.2	.7	-1.5	-2.2	-.1	.3	.0	-.9	.1	9.1	103.0	13.5	80.4
111.0	97.1	-10.0	.0	1.2	.7	-1.5	-2.3	-.1	.3	.0	-.9	.1	9.4	106.4	13.7	83.3
112.0	100.3	-10.0	.0	1.2	.7	-1.4	-2.4	-.1	.3	.0	-1.0	.1	9.7	109.7	13.9	86.1
113.0	103.5	-9.9	.0	1.2	.8	-1.4	-2.5	-.1	.3	.0	-1.0	.1	10.0	113.0	14.1	89.0
114.0	106.8	-9.7	-.1	1.2	.8	-1.4	-2.6	-.1	.3	.0	-1.1	.1	10.2	116.2	14.2	91.8
115.0	110.0	-9.5	-.1	1.2	.8	-1.4	-2.7	-.1	.3	.0	-1.1	.1	10.6	119.3	14.3	94.5
116.0	113.2	-9.3	-.1	1.3	.8	-1.4	-2.8	-.1	.3	.0	-1.2	.1	10.9	122.4	14.3	97.2
117.0	116.4	-9.1	-.1	1.3	.8	-1.4	-2.9	-.1	.3	.0	-1.2	.1	11.2	125.4	14.4	99.8
118.0	119.6	-8.8	-.1	1.3	.8	-1.3	-3.0	-.1	.3	-.1	-1.3	.1	11.5	128.4	14.5	102.4
119.0	122.8	-8.5	-.1	1.3	.8	-1.3	-3.1	-.1	.3	-.1	-1.3	.1	11.8	131.2	14.6	104.8
120.0	121.8	-8.3	-.1	1.3	.8	-1.3	-3.2	-.1	.3	-.1	-1.4	.1	12.1	134.0	14.6	107.2
121.0	124.2	-8.0	-.1	1.3	.8	-1.3	-3.2	-.1	.3	-.1	-1.4	.1	12.4	136.6	14.7	109.5
122.0	126.5	-7.8	-.1	1.3	.8	-1.3	-3.3	-.1	.4	-.1	-1.5	.1	12.7	139.2	14.8	111.7
123.0	128.7	-7.5	-.2	1.3	.8	-1.3	-3.4	-.1	.4	-.1	-1.5	.1	13.0	141.7	14.9	113.8
124.0	130.9	-7.2	-.1	1.3	.9	-1.2	-3.5	-.1	.4	-.1	-1.6	.1	13.3	144.2	15.0	115.9
125.0	133.0	-7.0	-.1	1.3	.9	-1.2	-3.6	.0	.4	-.1	-1.6	.1	13.6	146.6	15.1	117.8
126.0	135.0	-6.8	-.2	1.3	.9	-1.2	-3.6	.0	.4	-.1	-1.7	.1	13.9	148.9	15.3	119.8
127.0	137.1	-6.6	-.2	1.3	.9	-1.2	-3.7	.0	.4	-.1	-1.7	.1	14.2	151.2	15.4	121.6
128.0	138.9	-6.4	-.2	1.3	.9	-1.2	-3.8	.0	.4	-.1	-1.7	.1	14.4	153.4	15.5	123.4
129.0	140.8	-6.2	-.2	1.3	.9	-1.2	-3.9	.0	.4	-.1	-1.8	.1	14.7	155.5	15.7	125.1
130.0	142.7	-6.0	-.2	1.3	.9	-1.1	-4.0	.0	.4	-.1	-1.8	.1	15.0	157.6	15.9	126.8
140.0	158.5	-4.1	-.3	1.3	.9	-1.1	-4.7	.0	.4	-.1	-2.4	.2	17.5	176.0	18.6	139.9
150.0	170.9	-2.6	-.3	1.2	.9	-.8	-5.3	.1	.4	-.1	-2.8	.2	19.8	190.6	21.3	149.5
160.0	180.7	-1.4	-.3	1.2	.9	-.6	-5.6	.3	.4	-.1	-3.3	.2	21.9	202.7	23.8	157.0
170.0	189.2	-.6	-.3	1.2	.8	-.5	-6.5	.1	.4	-.1	-3.6	.3	23.5	212.7	25.7	163.5
180.0	196.8	.4	-.3	1.1	.8	-.3	-8.1	-.9	.4	-.1	-4.1	.3	25.0	221.8	26.5	168.3
190.0	202.5	1.8	-.2	.9	.8	.0	-8.9	-1.3	.4	-.1	-4.6	.3	27.0	229.5	30.8	171.7
200.0	207.2	3.0	-.2	.8	.7	.2	-9.5	-1.5	.3	-.1	-5.0	.4	28.6	235.8	32.6	174.6
210.0	211.2	3.4	-.1	.7	.7	.4	-10.0	-1.5	.3	-.1	-5.3	.4	30.0	241.2	34.1	177.0
220.0	214.5	4.1	-.1	.6	.6	.6	-10.3	-1.5	.3	-.1	-5.7	.4	31.4	245.9	35.5	179.1
230.0	217.5	4.7	-.1	.6	.6	.7	-10.6	-1.5	.3	-.1	-5.9	.4	32.5	250.1	36.7	180.9
240.0	220.3	5.2	.0	.5	.6	.8	-10.9	-1.5	.3	-.1	-6.2	.4	33.6	253.9	37.7	182.6
250.0	222.9	5.7	.0	.4	.5	.9	-11.2	-1.5	.3	-.1	-6.4	.4	34.6	257.5	38.7	184.2
260.0	225.4	6.1	.1	.4	.5	1.0	-11.4	-1.5	.3	-.1	-6.6	.5	35.6	261.0	39.6	185.8
270.0	227.9	6.5	.1	.3	.4	1.1	-11.7	-1.5	.3	-.1	-6.8	.5	36.5	264.4	40.5	187.4
280.0	230.5	6.9	.1	.3	.4	1.2	-11.9	-1.5	.3	-.1	-7.0	.5	37.4	267.9	41.4	189.1
290.0	233.2	7.2	.2	.2	.3	1.2	-12.1	-1.4	.3	-.1	-7.3	.5	38.3	271.5	42.3	191.0
300.0	236.2	7.6	.2	.2	.2	1.3	-12.4	-1.4	.4	-.1	-7.5	.5	39.1	275.3	43.2	193.0
310.0	239.3	7.9	.2	.1	.1	1.3	-12.6	-1.4	.4	-.2	-7.7	.5	40.1	279.4	44.1	195.2
320.0	242.9	8.3	.3	.1	.0	1.3	-12.9	-1.4	.4	-.2	-7.9	.5	41.0	283.9	45.1	197.7

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS	AHI	NEG
100.0	63.5	3.3	.0	-1.2	-2.5	-1.4	1.6	.0	-.4	.0	.5	.0	6.5	70.1	10.7	52.8		
101.0	66.4	3.3	.0	-1.2	-2.5	-1.4	1.7	.0	-.4	.0	.5	.0	6.8	73.2	11.0	55.4		
102.0	69.4	3.2	.0	-1.2	-2.6	-1.5	1.8	.0	-.5	.0	.6	.0	7.0	76.4	11.3	58.1		
103.0	72.4	3.2	.0	-1.2	-2.6	-1.5	1.9	.0	-.5	.0	.6	.0	7.3	79.6	11.6	60.8		
104.0	75.4	3.1	.0	-1.3	-2.6	-1.5	1.9	.0	-.5	.0	.6	.0	7.5	82.9	11.9	63.5		
105.0	78.4	3.0	.0	-1.3	-2.6	-1.6	2.0	.0	-.5	.0	.7	.0	7.8	86.2	12.2	66.3		
106.0	81.5	2.9	.0	-1.3	-2.6	-1.6	2.1	.0	-.5	.1	.7	.0	8.1	89.5	12.4	69.0		
107.0	84.6	2.8	.0	-1.4	-2.6	-1.6	2.2	.0	-.5	.1	.8	.0	8.3	92.9	12.7	71.9		
108.0	87.7	2.6	.0	-1.4	-2.6	-1.7	2.3	.0	-.5	.1	.8	.0	8.6	96.3	13.0	74.7		
109.0	90.8	2.4	.0	-1.4	-2.6	-1.7	2.4	.0	-.5	.1	.9	.0	8.8	99.6	13.2	77.5		
110.0	93.9	2.2	.0	-1.4	-2.6	-1.7	2.5	.0	-.6	.1	.9	.0	9.1	103.0	13.5	80.4		
111.0	97.1	1.8	.0	-1.4	-2.6	-1.8	2.6	.0	-.6	.1	1.0	.0	9.4	106.4	13.7	83.3		
112.0	100.0	1.5	.0	-1.5	-2.6	-1.8	2.7	.0	-.6	.1	1.0	.0	9.7	109.7	13.9	86.1		
113.0	103.0	1.1	.0	-1.5	-2.6	-1.8	2.9	.0	-.6	.1	1.1	.0	10.0	113.0	14.1	89.0		
114.0	106.9	.7	-.1	-1.5	-2.5	-1.9	3.0	.0	-.6	.1	1.1	.0	10.2	116.2	14.2	91.8		
115.0	108.8	.3	-.1	-1.5	-2.5	-1.9	3.1	.0	-.6	.1	1.2	.0	10.6	119.3	14.3	94.5		
116.0	111.6	-.1	-.1	-1.5	-2.5	-1.9	3.2	.0	-.6	.1	1.2	.0	10.9	122.4	14.3	97.2		
117.0	114.2	-.5	-.1	-1.5	-2.5	-1.9	3.3	.0	-.6	.1	1.3	.0	11.2	125.4	14.4	99.8		
118.0	116.9	-.9	-.1	-1.6	-2.5	-2.0	3.4	.0	-.7	.1	1.3	.0	11.5	128.4	14.5	102.4		
119.0	119.4	-1.3	-.1	-1.6	-2.4	-2.0	3.5	.0	-.7	.1	1.4	.0	11.8	131.2	14.6	104.8		
120.0	121.9	-1.6	-.1	-1.6	-2.4	-2.0	3.6	.0	-.7	.1	1.4	.0	12.1	134.0	14.6	107.2		
121.0	124.2	-2.0	-.1	-1.6	-2.4	-2.0	3.6	.0	-.7	.1	1.5	.0	12.4	136.6	14.7	109.5		
122.0	126.5	-2.4	-.1	-1.6	-2.4	-2.0	3.7	.0	-.7	.1	1.5	.0	12.7	139.2	14.8	111.7		
123.0	128.7	-2.7	-.2	-1.6	-2.4	-2.1	3.8	.0	-.7	.1	1.6	.0	13.0	141.7	14.9	113.8		
124.0	130.9	-3.0	-.1	-1.6	-2.3	-2.1	3.9	.0	-.7	.1	1.6	.0	13.3	144.2	15.0	115.9		
125.0	133.0	-3.3	-.2	-1.6	-2.3	-2.1	4.0	.0	-.7	.1	1.7	.0	13.6	146.6	15.1	117.8		
126.0	135.0	-3.6	-.2	-1.7	-2.3	-2.1	4.1	.0	-.7	.1	1.7	.0	13.9	148.9	15.3	119.8		
127.0	137.1	-3.9	-.2	-1.7	-2.2	-2.1	4.2	.0	-.7	.1	1.8	.0	14.2	151.2	15.4	121.6		
128.0	138.9	-4.2	-.2	-1.7	-2.2	-2.2	4.3	.0	-.7	.1	1.8	.0	14.4	153.4	15.5	123.4		
129.0	140.8	-4.5	-.2	-1.7	-2.2	-2.2	4.4	.0	-.8	.1	1.9	.0	14.7	155.5	15.7	125.1		
130.0	142.7	-4.8	-.2	-1.7	-2.2	-2.2	4.4	.0	-.8	.1	1.9	.0	15.0	157.6	15.9	126.8		
140.0	158.5	-7.4	-.3	-1.7	-1.8	-2.3	5.3	.0	-.8	.1	2.4	.0	17.5	176.0	18.6	139.9		
150.0	172.8	-9.4	-.3	-1.7	-1.4	-2.4	6.0	.0	-.9	.1	2.9	.0	19.8	190.6	21.3	149.5		
160.0	185.7	-11.1	-.3	-1.7	-1.0	-2.4	6.9	.0	-.9	.1	3.4	.0	21.9	202.7	23.8	157.0		
170.0	197.2	-12.3	-.3	-1.7	-.8	-2.5	7.3	.0	-1.0	.1	3.7	.0	23.5	212.7	25.7	163.5		
180.0	206.8	-14.0	-.3	-1.7	-.4	-2.4	8.8	.0	-1.0	.1	4.2	.0	25.0	221.8	28.5	168.3		
190.0	252.5	-15.2	-.3	-1.6	.3	-2.4	8.9	.0	-1.0	.1	4.7	.0	27.0	229.5	30.8	171.7		
200.0	207.2	-16.3	-.2	-1.5	.7	-2.3	7.1	.0	-1.0	.1	5.1	.0	28.6	235.8	32.6	174.6		
210.0	211.2	-17.1	-.2	-1.4	1.1	-2.3	7.4	.0	-1.1	.1	5.5	.0	30.0	241.2	34.1	177.0		
220.0	214.5	-17.9	-.1	-1.3	1.5	-2.2	7.8	.0	-1.1	.1	5.8	.0	31.4	245.9	35.5	179.1		
230.0	217.5	-18.5	-.1	-1.3	1.8	-2.2	8.2	.0	-1.1	.1	6.1	.0	32.5	250.1	36.7	180.9		
240.0	220.3	-19.1	-.1	-1.2	2.1	-2.2	8.5	.0	-1.1	.1	6.4	.0	33.6	253.9	37.7	182.6		
250.0	222.9	-19.6	.0	-1.2	2.4	-2.1	8.7	.0	-1.1	.1	6.6	.0	34.6	257.5	38.7	184.2		
260.0	225.4	-20.1	.0	-1.1	2.6	-2.1	9.0	.0	-1.1	.1	6.9	.0	35.6	261.0	39.6	185.8		
270.0	227.9	-20.6	.0	-1.1	2.9	-2.1	9.3	.0	-1.2	.1	7.1	.0	36.5	264.4	40.5	187.4		
280.0	230.5	-21.1	.0	-1.1	3.1	-2.1	9.5	.0	-1.2	.1	7.3	.0	37.4	267.9	41.4	189.1		
290.0	233.2	-21.5	.1	-1.0	3.4	-2.1	9.8	.0	-1.2	.1	7.6	.0	38.3	271.5	42.3	191.0		
300.0	236.0	-22.0	.1	-1.0	3.6	-2.0	10.0	.0	-1.3	.2	7.8	.0	39.1	275.3	43.2	193.0		
310.0	239.3	-22.5	.1	-.9	3.8	-2.0	10.3	.0	-1.3	.2	8.0	.0	40.1	279.4	44.1	195.2		
320.0	242.9	-23.1	.2	-.9	4.1	-2.0	10.5	.0	-1.4	.2	8.3	.0	41.0	283.9	45.1	197.7		

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	AHI POS NOM-RSS
330.0	246.9	8.6	.3	.0	-.1	1.4	-13.2	-1.4	.5	-.2	-8.2	.6	42.0	288.8	46.3	200.5
340.0	251.3	9.0	.4	.0	-.2	1.3	-13.5	-1.4	.6	-.2	-8.5	.6	43.1	294.4	47.5	203.8
350.0	256.4	9.3	.5	-.1	-.4	1.3	-13.8	-1.4	.7	-.2	-8.8	.6	44.2	300.6	48.8	207.6
360.0	262.4	9.7	.6	-.2	-.6	1.3	-14.2	-1.4	.8	-.2	-9.1	.6	45.4	307.8	50.2	212.1
370.0	269.3	10.1	.7	-.2	-.8	1.2	-14.6	-1.3	.9	-.3	-9.5	.6	46.7	316.0	51.8	217.5
380.0	277.5	10.5	.8	-.3	-1.1	1.0	-15.0	-1.3	1.1	-.3	-9.8	.6	48.0	325.5	53.4	224.1
390.0	287.2	10.9	.9	-.3	-1.5	.8	-15.4	-1.3	1.4	-.4	-10.2	.7	49.4	336.6	55.1	232.1
400.0	298.7	11.2	1.1	-.4	-1.9	.5	-15.8	-1.3	1.7	-.4	-10.5	.7	50.8	349.5	56.8	241.9
410.0	312.4	11.4	1.4	-.4	-2.4	.1	-16.2	-1.3	2.0	-.5	-10.9	.7	52.2	364.5	58.6	253.8
420.0	328.6	11.7	1.8	-.4	-3.0	-.5	-16.6	-1.3	2.5	-.6	-11.2	.7	53.5	382.1	60.4	268.2
430.0	347.8	11.8	2.4	-.4	-3.7	-1.2	-16.9	-1.2	3.0	-.7	-11.6	.7	54.7	402.6	62.2	285.6
440.0	370.3	11.8	3.4	-.3	-4.4	-1.9	-17.2	-1.2	3.6	-.9	-11.8	.8	55.8	426.2	63.9	306.4
450.0	396.2	11.7	5.0	-.3	-5.2	-2.8	-17.5	-1.2	4.2	-1.0	-12.0	.8	56.8	453.0	65.5	330.8
460.0	425.5	11.5	7.4	-.2	-5.9	-3.7	-17.7	-1.2	4.7	-1.1	-12.2	.8	57.6	483.1	66.8	358.8
470.0	456.1	11.2	10.5	.0	-6.6	-4.5	-17.8	-1.2	5.3	-1.2	-12.2	.8	58.5	516.6	67.8	390.3

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	AHI NOM-RSS	NEG
330.0	246.8	-23.7	.2	-.9	4.3	-2.0	10.8	.0	-1.5	.2	8.5	.0	42.0	288.8	46.3	200.5	
340.0	251.3	-24.3	.2	-.8	4.5	-2.0	11.1	.0	-1.5	.2	8.8	.0	43.1	294.4	47.5	203.8	
350.0	256.4	-25.0	.3	-.8	4.8	-1.9	11.4	.0	-1.7	.2	9.1	.0	44.2	300.6	48.8	207.6	
360.0	262.4	-25.8	.3	-.7	5.1	-1.9	11.8	.0	-1.8	.3	9.4	.0	45.4	307.8	50.2	212.1	
370.0	269.3	-26.7	.4	-.7	5.3	-1.9	12.2	.0	-2.0	.3	9.7	.0	46.7	316.0	51.8	217.5	
380.0	277.5	-27.7	.4	-.7	5.6	-1.9	12.5	.0	-2.2	.3	10.1	.0	48.0	325.5	53.4	224.1	
390.0	287.2	-28.7	.5	-.6	5.9	-1.9	12.9	.0	-2.4	.4	10.4	.0	49.4	336.6	55.1	232.1	
400.0	298.7	-29.8	.5	-.6	6.1	-1.9	13.3	.0	-2.8	.4	10.8	.0	50.8	349.5	56.8	241.9	
410.0	312.4	-30.9	.6	-.6	6.3	-1.9	13.7	.0	-3.1	.5	11.1	.0	52.2	364.5	58.6	253.8	
420.0	328.6	-32.2	.6	-.6	6.4	-2.0	14.1	.0	-3.6	.6	11.5	.0	53.5	382.1	60.4	268.2	
430.0	347.8	-33.5	.6	-.7	6.5	-2.1	14.5	.0	-4.2	.8	11.8	.0	54.7	402.6	62.2	285.6	
440.0	370.3	-34.7	.6	-.7	6.5	-2.1	14.8	.0	-4.8	.9	12.0	.0	55.8	426.2	63.9	306.4	
450.0	396.2	-36.0	.6	-.8	6.4	-2.3	15.1	.0	-5.4	1.0	12.2	.0	56.8	453.0	65.5	330.8	
460.0	425.5	-37.0	.6	-.9	6.2	-2.4	15.2	.0	-6.0	1.1	12.4	.0	57.6	483.1	66.8	358.8	
470.0	458.1	-39.0	.5	-1.0	5.9	-2.5	15.4	.0	-6.6	1.2	12.4	.0	58.5	516.6	67.8	390.3	

AEROZ/ENVIRONMENT

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
22.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
26.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.1
27.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.1
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
29.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.2
30.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.2
31.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.0	.3
32.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.0	.3
33.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.0	.3
34.0	.5	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.0	.4
35.0	.6	.0	.0	.0	.0	.0	.0	.0	.1	.7	.1	.0	.4
36.0	.6	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.0	.5
37.0	.7	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.0	.6
38.0	.8	.0	.0	.0	.0	.0	.0	.0	.1	.9	.2	.0	.7
39.0	.9	.0	.0	.0	.0	.0	.0	.0	.1	1.0	.2	.0	.7
40.0	1.0	.0	.0	.0	.0	.0	.0	.0	.1	1.2	.2	.0	.8
41.0	1.1	.0	.0	.0	.0	.0	.0	.0	.1	1.3	.2	.0	.9
42.0	1.3	.0	.0	.0	.0	.0	.0	.0	.1	1.4	.2	1.0	.9
43.0	1.4	.0	.0	.0	.0	.0	.0	.0	.1	1.5	.3	1.1	.9
44.0	1.5	.0	.0	.0	.0	.0	.0	.0	.1	1.7	.3	1.2	1.0
45.0	1.7	.0	.0	.0	.0	.0	.0	.0	.1	1.8	.3	1.4	1.1
46.0	1.8	.0	.0	.0	.0	.0	.0	.0	.1	2.0	.3	1.5	1.2
47.0	2.0	.0	.0	.0	.0	.0	.0	.0	.1	2.1	.4	1.6	1.3
48.0	2.1	.0	.0	.0	.0	.0	.0	.0	.1	2.3	.4	1.7	1.4
49.0	2.3	.0	.0	.0	.0	.0	.0	.0	.2	2.5	.4	1.9	1.5

AERO/ENVIRONMENT

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
22.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
27.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
29.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.2
30.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.2
31.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3
32.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3
33.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3
34.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4
35.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	.1	.4
36.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.5
37.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.6
38.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	.2	.7
39.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.0	.2	.7
40.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.2	.2	.8
41.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.3	.2	.9
42.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.4	.2	1.0
43.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.5	.3	1.1
44.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.7	.3	1.2
45.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.8	.3	1.4
46.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.0	.3	1.5
47.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.1	.4	1.6
48.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.3	.4	1.7
49.0	2.3	.1	.0	.0	.0	.0	.0	.0	.0	.1	2.5	.4	1.9

AERO/ENVIRONMENT

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
90.0	2.6	-.1	.0	.0	.0	.0	.0	.0	.0	.2	2.6	.5	2.0
91.0	2.7	-.1	.0	.0	.0	.0	.0	.0	.0	.2	2.8	.5	2.2
92.0	2.9	-.1	.0	.0	.0	.0	.0	.0	.0	.2	3.0	.5	2.3
93.0	3.1	-.1	.0	.0	.0	.0	.0	.0	.0	.2	3.2	.6	2.5
94.0	3.3	-.1	.0	.0	.0	.0	.0	.0	.0	.2	3.5	.6	2.7
95.0	3.5	-.1	.0	.0	.0	.0	.0	.0	.0	.2	3.7	.6	2.8
96.0	3.7	-.1	.0	.0	.0	.0	.0	.0	.0	.2	3.9	.7	3.0
97.0	3.9	-.1	.0	.0	.0	.0	.0	.0	.0	.2	4.2	.7	3.2
98.0	4.2	-.1	.0	.0	.0	.0	.0	.0	.0	.3	4.4	.8	3.4
99.0	4.4	-.1	.1	.0	.0	.0	.0	.0	.0	.3	4.7	.8	3.6
00.0	4.7	-.1	.1	.0	.0	.0	.0	.0	.0	.3	5.0	.9	3.8
01.0	5.0	-.1	.1	.0	.0	.0	.0	.0	.0	.4	5.4	.9	4.1
02.0	5.3	-.2	.1	.0	.1	.0	.0	.0	.0	.4	5.7	1.0	4.3
03.0	5.6	-.2	.1	.0	.1	.0	.0	.0	.0	.4	6.1	1.1	4.6
04.0	6.0	-.2	.1	.0	.1	.0	.0	.0	.0	.5	6.5	1.2	4.8
05.0	6.4	-.2	.1	.1	.1	.0	.0	.0	.0	.6	7.0	1.3	5.1
06.0	6.8	-.2	.1	.1	.1	.0	.0	.0	.1	.6	7.4	1.4	5.4
07.0	7.3	-.3	.1	.1	.1	.1	.0	.0	.1	.7	8.0	1.5	5.8
08.0	7.8	-.3	.1	.1	.1	.1	.0	.0	.1	.8	8.6	1.6	6.2
09.0	8.4	-.3	.1	.1	.1	.1	.0	.0	.1	.8	9.2	1.8	6.6
10.0	9.0	-.3	.1	.1	.1	.1	.0	.0	.1	.9	9.9	1.9	7.0
11.0	9.6	-.4	.2	.1	.2	.1	.0	-.1	.1	1.1	10.7	2.1	7.5
12.0	10.3	-.4	.2	.1	.2	.1	.0	-.1	.2	1.2	11.5	2.3	8.1
13.0	11.1	-.5	.2	.1	.2	.1	.0	-.1	.2	1.3	12.5	2.5	8.6
14.0	12.0	-.5	.2	.1	.2	.1	.0	-.1	.2	1.5	13.5	2.7	9.3
15.0	13.0	-.5	.2	.2	.2	.1	.0	-.1	.2	1.6	14.6	3.0	10.0
16.0	14.0	-.6	.2	.2	.3	.1	.0	-.1	.2	1.8	15.8	3.2	10.8
17.0	15.1	-.6	.3	.2	.3	.2	.0	-.1	.2	1.9	17.0	3.5	11.6
18.0	16.3	-.7	.3	.2	.3	.2	.0	-.1	.2	2.1	18.4	3.8	12.5
19.0	17.6	-.8	.3	.2	.3	.2	.0	-.1	.2	2.3	19.9	4.1	13.5
20.0	19.0	-.8	.3	.3	.4	.2	.0	-.1	.2	2.5	21.4	4.3	14.6
21.0	20.5	-.9	.4	.3	.4	.2	.0	-.1	.2	2.6	23.1	4.6	15.8
22.0	22.0	-.9	.4	.3	.5	.3	.0	-.1	.2	2.8	24.8	5.0	17.1
23.0	23.7	-1.0	.4	.3	.5	.3	.0	-.1	.2	3.0	26.7	5.3	18.4
24.0	25.4	-1.1	.5	.4	.5	.3	.0	-.2	.2	3.2	28.6	5.6	19.8
25.0	27.2	-1.1	.5	.4	.6	.3	.0	-.2	.2	3.4	30.6	5.9	21.3
26.0	29.1	-1.2	.6	.4	.6	.4	.0	-.2	.1	3.5	32.7	6.2	22.9
27.0	31.1	-1.2	.6	.5	.7	.4	.0	-.2	.1	3.7	34.8	6.5	24.6
28.0	33.2	-1.3	.7	.5	.8	.4	.1	-.2	.1	3.9	37.1	6.8	26.3
29.0	35.3	-1.4	.7	.6	.8	.5	.1	-.2	.1	4.1	39.4	7.2	28.1
30.0	37.5	-1.4	.8	.6	.9	.5	.1	-.2	.1	4.3	41.9	7.5	30.0
31.0	39.8	-1.5	.8	.7	1.0	.5	.1	-.2	.1	4.6	44.4	7.8	32.0
32.0	42.2	-1.6	.9	.7	1.0	.6	.1	-.2	.1	4.8	47.0	8.2	34.0
33.0	44.6	-1.6	1.0	.8	1.1	.6	.1	-.3	.1	5.0	49.6	8.5	36.2
34.0	47.2	-1.7	1.0	.9	1.2	.7	.1	-.3	.1	5.2	52.4	8.8	38.4
35.0	49.7	-1.8	1.1	.9	1.3	.7	.1	-.3	.1	5.4	55.2	9.1	40.6
36.0	52.4	-1.8	1.2	1.0	1.4	.7	.1	-.3	.0	5.6	58.0	9.5	42.9
37.0	55.1	-1.9	1.3	1.1	1.5	.8	.1	-.3	.0	5.9	61.0	9.8	45.3
38.0	57.9	-1.9	1.4	1.1	1.5	.8	.1	-.3	.0	6.1	63.9	10.1	47.8
39.0	60.7	-2.0	1.5	1.2	1.6	.9	.1	-.3	.0	6.3	67.0	10.4	50.3

AERO/ENVIRONMENT

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	2.5	.1	.0	.0	.0	.0	.0	.0	.1	.2	2.6	.5	2.0
51.0	2.7	.1	.0	.0	.0	.0	.0	.0	.1	.2	2.8	.5	2.2
52.0	2.9	.1	.0	.0	.0	.0	.0	.0	.1	.2	3.0	.5	2.3
53.0	3.1	.1	.0	.0	.0	.0	.0	.0	.1	.2	3.2	.6	2.5
54.0	3.3	.1	.0	.0	.0	.0	.0	.0	.1	.2	3.5	.6	2.7
55.0	3.5	.1	.0	.0	.0	.0	.0	.0	.1	.2	3.7	.6	2.8
56.0	3.7	.1	.0	.0	.0	.0	.0	.0	.0	.2	3.9	.7	3.0
57.0	3.9	.1	.0	.0	.0	.0	.0	.0	.0	.2	4.2	.7	3.2
58.0	4.2	.1	-.1	.0	.0	.0	.0	.0	.0	.3	4.4	.8	3.4
59.0	4.4	.1	-.1	.0	.0	.0	.0	.0	.0	.3	4.7	.8	3.6
60.0	4.7	.1	-.1	.0	.0	.0	.0	.0	.0	.3	5.0	.9	3.8
61.0	5.	.2	-.1	.0	.0	.0	.0	.0	.0	.4	5.4	.9	4.1
62.0	5.3	.2	-.1	.0	-.1	.0	.0	.0	.0	.4	5.7	1.0	4.3
63.0	5.6	.2	-.1	.0	-.1	.0	.0	.0	.0	.4	6.1	1.1	4.6
64.0	6.	.2	-.1	-.1	-.1	.0	.0	.0	.0	.5	6.5	1.2	4.8
65.0	6.4	.2	-.1	-.1	-.1	.0	.0	.0	.0	.6	7.0	1.3	5.1
66.0	6.8	.3	-.1	-.1	-.1	-.1	.0	.0	.0	.6	7.4	1.4	5.4
67.0	7.3	.3	-.1	-.1	-.1	-.1	.0	.0	.0	.7	8.0	1.5	5.8
68.0	7.8	.3	-.1	-.1	-.1	-.1	.0	.1	.0	.8	8.6	1.6	6.2
69.0	8.4	.3	-.1	-.1	-.1	-.1	.0	.1	.0	.8	9.2	1.8	6.6
70.0	9.0	.4	-.2	-.1	-.1	-.1	.0	.1	.0	.9	9.9	1.9	7.0
71.0	9.6	.4	-.2	-.1	-.1	-.1	.0	.1	.0	1.1	10.7	2.1	7.5
72.0	10.3	.5	-.2	-.1	-.2	-.1	.0	.1	.0	1.2	11.5	2.3	8.1
73.0	11.1	.5	-.2	-.1	-.2	-.1	.0	.1	.0	1.3	12.5	2.5	8.6
74.0	12.0	.5	-.2	-.1	-.2	-.1	.0	.1	.0	1.5	13.5	2.7	9.3
75.0	13.0	.6	-.2	-.2	-.2	-.1	.0	.1	.0	1.6	14.6	3.0	10.0
76.0	14.0	.6	-.3	-.2	-.2	-.1	.0	.1	.0	1.8	15.8	3.2	10.8
77.0	15.1	.7	-.3	-.2	-.2	-.2	.0	.1	.0	1.9	17.0	3.5	11.6
78.0	16.3	.8	-.3	-.2	-.3	-.2	.0	.1	.0	2.1	18.4	3.8	12.5
79.0	17.6	.8	-.3	-.2	-.3	-.2	.0	.1	.0	2.3	19.9	4.1	13.5
80.0	19.0	.9	-.4	-.3	-.3	-.2	.0	.2	.0	2.5	21.4	4.3	14.6
81.0	20.6	.9	-.4	-.3	-.4	-.2	.0	.2	.0	2.6	23.1	4.6	15.8
82.0	22.3	1.0	-.4	-.3	-.4	-.2	.0	.2	.0	2.8	24.8	5.0	17.1
83.0	23.7	1.1	-.5	-.3	-.4	-.3	.0	.2	.0	3.0	26.7	5.3	18.4
84.0	25.4	1.1	-.5	-.4	-.5	-.3	.0	.2	.0	3.2	28.6	5.6	19.8
85.0	27.2	1.2	-.6	-.4	-.5	-.3	.0	.2	.0	3.4	30.6	5.9	21.3
86.0	29.1	1.3	-.6	-.4	-.6	-.3	.0	.2	.0	3.5	32.7	6.2	22.9
87.0	31.1	1.3	-.7	-.5	-.6	-.4	.0	.2	.1	3.7	34.8	6.5	24.6
88.0	33.2	1.4	-.7	-.5	-.7	-.4	.0	.3	.1	3.9	37.1	6.8	26.3
89.0	35.3	1.5	-.8	-.6	-.7	-.4	.0	.3	.1	4.1	39.4	7.2	28.1
90.0	37.5	1.6	-.8	-.6	-.8	-.5	.0	.3	.1	4.3	41.9	7.5	30.0
91.0	39.8	1.6	-.9	-.7	-.9	-.5	-.1	.3	.1	4.6	44.4	7.8	32.0
92.0	42.2	1.7	-1.0	-.7	-.9	-.6	-.1	.3	.1	4.8	47.0	8.2	34.0
93.0	44.6	1.8	-1.0	-.8	-1.0	-.6	-.1	.3	.1	5.0	49.6	8.5	36.2
94.0	47.2	1.8	-1.1	-.8	-1.1	-.6	-.1	.4	.1	5.2	52.4	8.8	38.4
95.0	49.7	1.9	-1.2	-.9	-1.1	-.7	-.1	.4	.2	5.4	55.2	9.1	40.6
96.0	52.4	2.0	-1.3	-1.0	-1.2	-.7	-.1	.4	.2	5.6	58.0	9.5	42.9
97.0	55.1	2.0	-1.3	-1.0	-1.3	-.8	-.1	.4	.2	5.9	61.0	9.8	45.3
98.0	57.9	2.1	-1.4	-1.1	-1.4	-.9	-.1	.4	.2	6.1	63.9	10.1	47.8
99.0	60.7	2.2	-1.5	-1.2	-1.5	-.9	-.1	.5	.2	6.3	67.0	10.4	50.3

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	63.5	-2.1	1.6	1.3	1.7	.9	.1	-.4	-.1	6.5	70.1	10.7	52.8
101.0	66.4	-2.1	1.6	1.4	1.8	1.0	.1	-.4	-.1	6.8	73.2	11.0	55.4
102.0	69.4	-2.2	1.7	1.5	1.9	1.1	.1	-.4	-.2	7.0	76.4	11.3	58.1
103.0	72.4	-2.2	1.8	1.6	2.1	1.1	.1	-.4	-.2	7.3	79.6	11.6	60.8
104.0	75.4	-2.3	2.0	1.7	2.2	1.2	.1	-.4	-.2	7.5	82.9	11.9	63.5
105.0	78.4	-2.3	2.1	1.8	2.3	1.2	.2	-.4	-.3	7.8	86.2	12.2	66.3
106.0	81.5	-2.4	2.2	1.9	2.4	1.3	.2	-.4	-.3	8.1	89.5	12.4	69.0
107.0	84.6	-2.4	2.3	2.0	2.5	1.3	.2	-.5	-.4	8.3	92.9	12.7	71.9
108.0	87.7	-2.4	2.4	2.1	2.6	1.4	.2	-.5	-.4	8.6	96.3	13.0	74.7
109.0	90.8	-2.5	2.5	2.2	2.7	1.5	.2	-.5	-.5	8.8	99.6	13.2	77.5
110.0	93.9	-2.5	2.6	2.3	2.8	1.5	.2	-.5	-.5	9.1	103.0	13.5	80.4
111.0	97.1	-2.6	2.8	2.4	3.0	1.6	.2	-.5	-.6	9.4	106.4	13.7	83.3
112.0	100.0	-2.6	2.9	2.5	3.1	1.7	.2	-.5	-.6	9.7	109.7	13.9	86.1
113.0	103.0	-2.6	3.0	2.6	3.2	1.7	.2	-.5	-.7	10.0	113.0	14.1	89.0
114.0	105.9	-2.6	3.1	2.7	3.3	1.8	.2	-.6	-.8	10.2	116.2	14.2	91.8
115.0	108.8	-2.7	3.2	2.8	3.4	1.8	.2	-.6	-.8	10.6	119.3	14.3	94.5
116.0	111.6	-2.7	3.4	2.9	3.5	1.9	.2	-.6	-.9	10.9	122.4	14.3	97.2
117.0	114.2	-2.7	3.5	3.0	3.6	2.0	.2	-.6	-.9	11.2	125.4	14.4	99.8
118.0	116.9	-2.8	3.6	3.1	3.8	2.0	.3	-.6	-1.0	11.5	128.4	14.5	102.4
119.0	119.4	-2.8	3.7	3.2	3.9	2.1	.3	-.6	-1.1	11.8	131.2	14.6	104.8
120.0	121.9	-2.8	3.8	3.3	4.0	2.1	.3	-.7	-1.1	12.1	134.0	14.6	107.2
121.0	124.2	-2.8	3.9	3.4	4.1	2.2	.3	-.7	-1.2	12.4	136.6	14.7	109.5
122.0	126.5	-2.8	4.0	3.5	4.2	2.2	.3	-.7	-1.2	12.7	139.2	14.8	111.7
123.0	128.7	-2.9	4.1	3.6	4.3	2.3	.3	-.7	-1.3	13.0	141.7	14.9	113.8
124.0	130.9	-2.9	4.2	3.7	4.4	2.3	.3	-.7	-1.3	13.3	144.2	15.0	115.9
125.0	133.1	-2.9	4.4	3.8	4.5	2.4	.3	-.7	-1.4	13.6	146.6	15.1	117.8
126.0	135.2	-2.9	4.5	3.9	4.5	2.4	.3	-.7	-1.5	13.9	148.9	15.3	119.8
127.0	137.3	-2.9	4.6	4.0	4.6	2.5	.3	-.8	-1.5	14.2	151.2	15.4	121.6
128.0	139.3	-2.9	4.7	4.1	4.7	2.5	.3	-.8	-1.6	14.4	153.4	15.5	123.4
129.0	140.8	-2.9	4.8	4.2	4.8	2.6	.3	-.8	-1.6	14.7	155.5	15.7	125.1
130.0	142.7	-3.0	4.9	4.3	4.9	2.6	.3	-.8	-1.7	15.0	157.6	15.9	126.8
140.0	158.9	-3.0	5.8	5.2	5.7	3.0	.4	-.9	-2.2	17.5	176.0	18.6	139.9
150.0	170.8	-3.0	6.7	5.9	6.5	3.4	.4	-1.0	-2.5	19.8	190.6	21.3	149.5
160.0	180.7	-2.9	7.5	6.7	7.1	3.8	.5	-1.1	-2.8	21.9	202.7	23.8	157.0
170.0	189.2	-2.9	8.1	7.2	7.6	4.0	.5	-1.2	-3.5	23.5	212.7	25.7	163.5
180.0	196.8	-2.8	8.8	7.9	8.2	4.3	.6	-1.3	-4.9	25.0	221.8	28.5	168.3
190.0	202.5	-2.6	9.6	8.6	8.9	4.7	.6	-1.4	-5.5	27.0	229.5	30.8	171.7
200.0	207.2	-2.4	10.3	9.2	9.4	4.9	.6	-1.5	-5.8	28.6	235.8	32.6	174.6
210.0	211.2	-2.3	10.8	9.7	9.8	5.1	.7	-1.5	-5.9	30.0	241.2	34.1	177.0
220.0	214.5	-2.1	11.3	10.1	10.2	5.3	.7	-1.6	-5.9	31.4	245.9	35.5	179.1
230.0	217.5	-2.0	11.8	10.5	10.5	5.5	.7	-1.6	-5.9	32.5	250.1	36.7	180.9
240.0	220.3	-1.9	12.1	10.9	10.8	5.7	.7	-1.7	-5.9	33.6	253.9	37.7	182.6
250.0	222.9	-1.8	12.5	11.2	11.1	5.8	.8	-1.7	-5.9	34.6	257.5	38.7	184.2
260.0	225.4	-1.7	12.9	11.5	11.3	5.9	.8	-1.8	-5.9	35.6	261.0	39.6	185.8
270.0	227.9	-1.6	13.2	11.8	11.6	6.1	.8	-1.8	-5.9	36.5	264.4	40.5	187.4
280.0	230.3	-1.5	13.5	12.1	11.8	6.2	.8	-1.8	-5.9	37.4	267.9	41.4	189.1
290.0	233.2	-1.4	13.9	12.4	12.1	6.3	.8	-1.9	-5.9	38.3	271.5	42.3	191.0
300.0	236.2	-1.4	14.2	12.7	12.3	6.5	.8	-1.9	-5.9	39.1	275.3	43.2	193.0
310.0	239.3	-1.3	14.5	13.0	12.6	6.6	.9	-2.0	-5.9	40.1	279.4	44.1	195.2
320.0	242.9	-1.2	14.9	13.4	12.9	6.7	.9	-2.0	-5.9	41.6	283.9	45.1	197.7

AERO/ENVIRONMENT

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	63.5	2.2	-1.6	-1.3	-1.6	-.9	-.1	.5	.3	6.5	70.1	10.7	52.8
101.0	66.4	2.3	-1.7	-1.3	-1.7	-1.0	-.1	.5	.3	6.8	73.2	11.0	55.4
102.0	69.4	2.4	-1.8	-1.4	-1.8	-1.0	-.1	.5	.3	7.0	76.4	11.3	56.1
103.0	72.4	2.4	-1.9	-1.5	-1.9	-1.1	-.1	.5	.4	7.3	79.6	11.6	60.8
104.0	75.4	2.5	-2.0	-1.6	-1.9	-1.1	-.1	.6	.4	7.5	82.9	11.9	63.5
105.0	78.4	2.5	-2.1	-1.7	-2.1	-1.2	-.1	.6	.5	7.8	86.2	12.2	66.3
106.0	81.5	2.6	-2.2	-1.8	-2.2	-1.3	-.1	.6	.5	8.1	89.5	12.4	69.0
107.0	84.6	2.6	-2.3	-1.9	-2.3	-1.3	-.1	.6	.6	8.3	92.9	12.7	71.9
108.0	87.7	2.7	-2.4	-2.0	-2.4	-1.4	-.2	.6	.6	8.6	96.3	13.0	74.7
109.0	90.8	2.7	-2.6	-2.1	-2.5	-1.4	-.2	.7	.6	8.8	99.6	13.2	77.5
110.0	93.9	2.8	-2.7	-2.2	-2.6	-1.5	-.2	.7	.7	9.1	103.0	13.5	80.4
111.0	97.0	2.8	-2.8	-2.3	-2.7	-1.6	-.2	.7	.7	9.4	106.4	13.7	83.3
112.0	100.0	2.8	-2.9	-2.4	-2.8	-1.6	-.2	.7	.8	9.7	109.7	13.9	86.1
113.0	103.0	2.9	-3.0	-2.5	-2.9	-1.7	-.2	.7	.9	10.0	113.0	14.1	89.0
114.0	105.9	2.9	-3.2	-2.6	-3.0	-1.7	-.2	.8	.9	10.2	116.2	14.2	91.8
115.0	108.8	2.9	-3.3	-2.7	-3.1	-1.8	-.2	.8	1.0	10.6	119.3	14.3	94.5
116.0	111.6	3.0	-3.4	-2.8	-3.2	-1.9	-.2	.8	1.1	10.9	122.4	14.3	97.2
117.0	114.2	3.0	-3.5	-2.9	-3.3	-1.9	-.2	.8	1.1	11.2	125.4	14.4	99.8
118.0	116.9	3.0	-3.6	-3.0	-3.4	-2.0	-.2	.9	1.2	11.5	128.4	14.5	102.4
119.0	119.4	3.1	-3.7	-3.1	-3.5	-2.0	-.2	.9	1.2	11.8	131.2	14.6	104.8
120.0	121.8	3.1	-3.8	-3.2	-3.6	-2.1	-.2	.9	1.3	12.1	134.0	14.6	107.2
121.0	124.2	3.1	-3.9	-3.3	-3.7	-2.1	-.3	.9	1.4	12.4	136.6	14.7	109.5
122.0	126.5	3.1	-4.0	-3.3	-3.8	-2.2	-.3	.9	1.4	12.7	139.2	14.8	111.7
123.0	128.7	3.2	-4.1	-3.4	-3.9	-2.2	-.3	1.0	1.5	13.0	141.7	14.9	113.8
124.0	130.9	3.2	-4.2	-3.5	-4.0	-2.3	-.3	1.0	1.6	13.3	144.2	15.0	115.9
125.0	133.0	3.2	-4.3	-3.6	-4.0	-2.3	-.3	1.0	1.6	13.6	146.6	15.1	117.8
126.0	135.0	3.2	-4.4	-3.7	-4.1	-2.4	-.3	1.0	1.7	13.9	148.9	15.3	119.8
127.0	137.0	3.2	-4.5	-3.8	-4.2	-2.4	-.3	1.0	1.7	14.2	151.2	15.4	121.6
128.0	138.9	3.3	-4.6	-3.9	-4.3	-2.5	-.3	1.1	1.8	14.4	153.4	15.5	123.4
129.0	140.8	3.3	-4.7	-4.0	-4.4	-2.5	-.3	1.1	1.8	14.7	155.5	15.7	125.1
130.0	142.7	3.3	-4.8	-4.0	-4.5	-2.6	-.3	1.1	1.9	15.0	157.6	15.9	126.8
140.0	158.5	3.4	-5.7	-4.9	-5.2	-3.0	-.4	1.3	2.4	17.5	176.0	18.6	139.9
150.0	170.8	3.4	-6.5	-5.6	-5.9	-3.4	-.4	1.4	3.0	19.8	190.6	21.3	149.5
160.0	180.7	3.4	-7.2	-6.3	-6.5	-3.7	-.5	1.6	3.6	21.9	202.7	23.8	157.0
170.0	189.2	3.5	-7.7	-6.7	-7.0	-4.0	-.5	1.7	3.8	23.5	212.7	25.7	163.5
180.0	196.8	3.3	-8.5	-7.4	-7.6	-4.3	-.5	1.8	3.1	25.0	221.8	28.5	168.3
190.0	202.5	3.2	-9.1	-8.1	-8.1	-4.6	-.6	1.9	2.8	27.0	229.5	30.8	171.7
200.0	207.2	3.1	-9.7	-8.6	-8.6	-4.9	-.6	2.0	2.7	28.6	235.8	32.6	174.6
210.0	211.2	3.0	-10.1	-9.0	-8.9	-5.1	-.6	2.1	2.7	30.0	241.2	34.1	177.0
220.0	214.5	2.9	-10.6	-9.4	-9.3	-5.3	-.7	2.2	2.7	31.4	245.9	35.5	179.1
230.0	217.5	2.8	-10.9	-9.8	-9.6	-5.5	-.7	2.3	2.7	32.5	250.1	36.7	180.9
240.0	220.3	2.7	-11.3	-10.1	-9.8	-5.6	-.7	2.3	2.7	33.6	253.9	37.7	182.6
250.0	222.9	2.6	-11.6	-10.4	-10.1	-5.7	-.7	2.4	2.7	34.6	257.5	38.7	184.2
260.0	225.4	2.6	-11.9	-10.6	-10.3	-5.9	-.8	2.4	2.7	35.6	261.0	39.6	185.8
270.0	227.9	2.5	-12.1	-10.9	-10.6	-6.0	-.8	2.5	2.7	36.5	264.4	40.5	187.4
280.0	230.5	2.4	-12.4	-11.2	-10.8	-6.1	-.8	2.6	2.7	37.4	267.9	41.4	189.1
290.0	233.2	2.4	-12.7	-11.4	-11.0	-6.2	-.8	2.6	2.7	38.3	271.5	42.3	191.0
300.0	236.2	2.3	-13.0	-11.7	-11.2	-6.4	-.8	2.7	2.7	39.1	275.3	43.2	193.0
310.0	239.3	2.3	-13.3	-12.0	-11.5	-6.5	-.8	2.7	2.7	40.1	279.4	44.1	195.2
320.0	242.6	2.2	-13.6	-12.3	-11.7	-6.6	-.9	2.8	2.7	41.0	283.9	45.1	197.7

AERO/ENVIRONMENT

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	246.6	-1.1	15.2	13.7	13.1	6.9	.9	-2.0	-5.9	42.0	288.8	46.3	200.5
340.0	251.3	-1.0	15.6	14.0	13.4	7.1	.9	-2.1	-5.9	43.1	294.4	47.5	203.8
350.0	256.4	-.9	16.1	14.4	13.8	7.2	.9	-2.2	-5.9	44.2	300.6	48.8	207.6
360.0	262.4	-.8	16.5	14.8	14.1	7.4	1.0	-2.2	-5.9	45.4	307.8	50.2	212.1
370.0	269.3	-.7	17.0	15.3	14.4	7.6	1.0	-2.3	-5.9	46.7	316.0	51.8	217.5
380.0	277.5	-.7	17.5	15.7	14.8	7.8	1.0	-2.4	-5.9	48.0	325.5	53.4	224.1
390.0	287.2	-.6	18.0	16.2	15.2	8.0	1.1	-2.5	-5.9	49.4	336.6	55.1	232.1
400.0	298.7	-.6	18.5	16.6	15.6	8.2	1.1	-2.5	-5.9	50.8	349.5	56.8	241.9
410.0	312.4	-.5	19.0	17.1	16.0	8.4	1.1	-2.6	-5.8	52.2	364.5	58.6	253.8
420.0	328.6	-.6	19.5	17.6	16.4	8.6	1.2	-2.7	-5.8	53.5	382.1	60.4	268.2
430.0	347.8	-.6	19.9	18.0	16.7	8.8	1.2	-2.8	-5.8	54.7	402.6	62.2	285.6
440.0	370.3	-.7	20.3	18.3	17.0	8.9	1.2	-2.9	-5.8	55.8	426.2	63.9	306.4
450.0	396.2	-.9	20.6	18.6	17.3	9.1	1.2	-3.0	-5.8	56.8	453.0	65.5	330.8
460.0	425.5	-1.1	20.8	18.8	17.5	9.2	1.2	-3.1	-5.8	57.6	483.1	66.8	358.8
470.0	458.1	-1.3	20.9	18.9	17.6	9.2	1.3	-3.1	-5.8	58.5	516.6	67.8	390.3

AERO/ENVIRONMENT

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	246.6	2.2	-13.9	-12.6	-12.0	-6.9	-.9	2.8	2.7	42.0	288.8	46.3	200.5
340.0	251.3	2.1	-14.3	-13.0	-12.3	-7.0	-.9	2.9	2.7	43.1	294.4	47.5	203.8
350.0	256.4	2.1	-14.7	-13.3	-12.6	-7.1	-.9	3.0	2.7	44.2	300.6	48.8	207.6
360.0	262.4	2.0	-15.1	-13.7	-13.0	-7.3	-1.0	3.1	2.7	45.4	307.8	50.2	212.1
370.0	269.3	1.9	-15.6	-14.2	-13.3	-7.5	-1.0	3.2	2.7	46.7	316.0	51.8	217.5
380.0	277.5	1.9	-16.1	-14.6	-13.7	-7.7	-1.0	3.3	2.6	48.0	325.5	53.4	224.1
390.0	287.2	1.8	-16.6	-15.1	-14.1	-7.9	-1.0	3.4	2.6	49.4	336.6	55.1	232.1
400.0	298.7	1.8	-17.1	-15.6	-14.5	-8.1	-1.1	3.5	2.6	50.8	349.5	56.8	241.9
410.0	312.4	1.9	-17.5	-16.0	-14.9	-8.4	-1.1	3.6	2.6	52.2	364.5	58.6	253.8
420.0	328.6	1.9	-18.0	-16.4	-15.2	-8.6	-1.1	3.7	2.6	53.5	382.1	60.4	268.2
430.0	347.8	2.0	-18.4	-16.9	-15.6	-8.8	-1.1	3.9	2.6	54.7	402.6	62.2	285.6
440.0	370.3	2.2	-18.8	-17.2	-15.9	-8.9	-1.2	4.0	2.6	55.8	426.2	63.9	306.4
450.0	396.2	2.4	-19.1	-17.5	-16.1	-9.1	-1.2	4.1	2.6	56.8	453.0	65.5	330.8
460.0	425.5	2.6	-19.3	-17.7	-16.3	-9.2	-1.2	4.2	2.6	57.6	483.1	66.8	358.8
470.0	458.1	2.8	-19.4	-17.8	-16.4	-9.2	-1.2	4.2	2.6	58.5	516.6	67.8	391.3

MASS PROPERTIES

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
22.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
26.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	
27.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
29.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.2	
30.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.2	
31.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3	
32.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3	
33.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3	
34.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4	
35.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	.1	.4	
36.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.5	
37.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.6	
38.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	.2	.7	
39.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.0	.2	.7	
40.0	1.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	1.2	.2	.8	
41.0	1.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	1.3	.2	.9	
42.0	1.3	.0	.0	.0	.0	.0	.1	.0	.0	.1	1.4	.2	1.0	
43.0	1.4	.0	.0	.0	.0	.0	.1	.0	.0	.1	1.5	.3	1.1	
44.0	1.5	.0	.0	.0	.0	.0	.1	.0	.0	.1	1.7	.3	1.2	
45.0	1.7	.0	.0	.0	.0	.0	.1	.0	.0	.1	1.8	.3	1.4	
46.0	1.8	.0	.0	.0	.0	.0	.1	.0	.0	.1	2.0	.3	1.5	
47.0	2.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	2.1	.4	1.6	
48.0	2.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	2.3	.4	1.7	
49.0	2.3	.0	.0	.0	.0	.0	.1	.0	.0	.2	2.5	.4	1.9	

MASS PROPERTIES

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
22.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
26.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	
27.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	
29.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.2	
30.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.2	
31.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3	
32.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3	
33.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3	
34.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4	
35.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	.1	.4	
36.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.5	
37.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.6	
38.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	.2	.7	
39.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.0	.2	.7	
40.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.2	.2	.8	
41.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.3	.2	.9	
42.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.4	.2	1.0	
43.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.5	.3	1.1	
44.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.7	.3	1.2	
45.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.8	.3	1.4	
46.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.0	.3	1.5	
47.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.1	.4	1.6	
48.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.3	.4	1.7	
49.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.5	.4	1.9	

MASS PROPERTIES

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.6	.5	2.0
51.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.8	.5	2.2
52.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.0	.5	2.3
53.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.2	.6	2.5
54.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.5	.6	2.7
55.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.7	.6	2.8
56.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.9	.7	3.0
57.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	4.2	.7	3.2
58.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	4.4	.8	3.4
59.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	4.7	.8	3.6
60.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	5.0	.9	3.8
61.0	5.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	5.4	.9	4.1
62.0	5.3	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	5.7	1.0	4.3
63.0	5.6	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	6.1	1.1	4.6
64.0	6.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.5	6.5	1.2	4.8
65.0	6.4	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.6	7.0	1.3	5.1
66.0	6.8	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.6	7.4	1.4	5.4
67.0	7.3	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.7	8.0	1.5	5.8
68.0	7.8	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	8.6	1.6	6.2
69.0	8.4	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	9.2	1.8	6.6
70.0	9.0	-.1	.1	.0	.0	.0	.0	.0	.0	.0	.9	9.9	1.9	7.0
71.0	9.6	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.1	10.7	2.1	7.5
72.0	10.3	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.2	11.5	2.3	8.1
73.0	11.1	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.3	12.5	2.5	8.6
74.0	12.0	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.5	13.5	2.7	9.3
75.0	13.0	-.2	.1	.0	.0	.0	.0	.0	.0	.0	1.6	14.6	3.0	10.0
76.0	14.0	-.2	.1	.0	.0	.0	.0	.0	.0	.0	1.8	15.8	3.2	10.8
77.0	15.1	-.2	.1	.0	.0	.0	.0	.0	.0	.0	1.9	17.0	3.5	11.6
78.0	16.3	-.2	.1	.0	.0	.0	.0	.0	.0	.0	2.1	18.4	3.8	12.5
79.0	17.6	-.2	.1	.0	.0	.0	.0	.0	.0	.0	2.3	19.9	4.1	13.5
80.0	19.0	-.2	.1	.0	.0	.0	.0	.0	.0	.0	2.5	21.4	4.3	14.6
81.0	20.5	-.2	.1	.0	.0	.0	.0	.0	.0	.0	2.6	23.1	4.6	15.8
82.0	22.0	-.3	.1	.0	.0	.0	.0	.0	.0	.0	2.8	24.8	5.0	17.1
83.0	23.7	-.3	.1	.0	.0	.0	.0	.0	.0	.0	3.0	26.7	5.3	18.4
84.0	25.4	-.3	.1	.0	.0	.0	.0	.0	.0	.0	3.2	28.6	5.6	19.8
85.0	27.2	-.3	.2	.0	.0	.0	.0	.0	.0	.0	3.4	30.6	5.9	21.3
86.0	29.1	-.3	.2	.0	.0	.0	.0	.0	.0	.0	3.5	32.7	6.2	22.9
87.0	31.1	-.3	.2	.0	.0	.0	.0	.0	.0	.0	3.7	34.8	6.5	24.6
88.0	33.2	-.4	.2	.0	.0	.0	.0	.0	.0	.0	3.9	37.1	6.8	26.3
89.0	35.3	-.4	.2	.0	.0	.0	.0	.0	.0	.0	4.1	39.4	7.2	28.1
90.0	37.5	-.4	.2	.0	.0	.0	.1	.0	.0	.0	4.3	41.9	7.5	30.0
91.0	39.9	-.4	.2	.0	.0	.0	.1	.0	.0	.0	4.6	44.4	7.8	32.0
92.0	42.2	-.4	.2	.0	.0	.0	.1	.0	.0	.0	4.8	47.0	8.2	34.0
93.0	44.6	-.5	.2	.0	.0	.0	.1	-.1	.0	.0	5.0	49.6	8.5	36.2
94.0	47.2	-.5	.2	.0	.0	.0	.1	-.1	.0	.0	5.2	52.4	8.8	38.4
95.0	49.7	-.5	.2	.0	.0	.0	.1	-.1	.0	.0	5.4	55.2	9.1	40.6
96.0	52.4	-.5	.3	.0	.0	.0	.1	-.1	.0	.0	5.6	58.0	9.5	42.9
97.0	55.1	-.5	.3	.0	.0	.0	.1	-.1	.0	.0	5.9	61.0	9.8	45.3
98.0	57.9	-.6	.3	.0	.0	.0	.1	-.1	.0	.0	6.1	63.9	10.1	47.8
99.0	60.7	-.6	.3	.0	.0	.0	.1	-.1	.0	.0	6.3	67.0	10.4	50.3

MASS PROPERTIES

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.6	.5	2.0
51.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.8	.5	2.2
52.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.0	.5	2.3
53.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.2	.6	2.5
54.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.5	.6	2.7
55.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.7	.6	2.8
56.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.9	.7	3.0
57.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	4.2	.7	3.2
58.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	4.4	.8	3.4
59.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	4.7	.8	3.6
60.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	5.0	.9	3.8
61.0	5.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	5.4	.9	4.1
62.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	5.7	1.0	4.3
63.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	6.1	1.1	4.6
64.0	6.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	6.5	1.2	4.8
65.0	6.4	.1	-.1	.0	.0	.0	.0	.0	.0	.0	.6	7.0	1.3	5.1
66.0	6.8	.1	-.1	.0	.0	.0	.0	.0	.0	.0	.6	7.4	1.4	5.4
67.0	7.3	.1	-.1	.0	.0	.0	.0	.0	.0	.0	.7	8.0	1.5	5.8
68.0	7.8	.1	-.1	.0	.0	.0	.0	.0	.0	.0	.8	8.6	1.6	6.2
69.0	8.4	.1	-.1	.0	.0	.0	.0	.0	.0	.0	.8	9.2	1.8	6.6
70.0	9.0	.1	-.1	.0	.0	.0	.0	.0	.0	.0	.9	9.9	1.9	7.0
71.0	9.6	.1	-.1	.0	.0	.0	.0	.0	.0	.0	1.1	10.7	2.1	7.5
72.0	10.3	.1	-.1	.0	.0	.0	.0	.0	.0	.0	1.2	11.5	2.3	8.1
73.0	11.1	.1	-.1	.0	.0	.0	.0	.0	.0	.0	1.3	12.5	2.5	8.6
74.0	12.0	.1	-.1	.0	.0	.0	.0	.0	.0	.0	1.5	13.5	2.7	9.3
75.0	13.0	.1	-.1	.0	.0	.0	.0	.0	.0	.0	1.6	14.6	3.0	10.0
76.0	14.0	.1	-.1	.0	.0	.0	.0	.0	.0	.0	1.8	15.8	3.2	10.8
77.0	15.1	.1	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	17.0	3.5	11.6
78.0	16.3	.2	-.1	.0	.0	.0	.0	.0	.0	.0	2.1	18.4	3.8	12.5
79.0	17.6	.2	-.2	.0	.0	.0	.0	.0	.0	.0	2.3	19.9	4.1	13.5
80.0	19.0	.2	-.2	.0	.0	.0	.0	.0	.0	.0	2.5	21.4	4.3	14.6
81.0	20.5	.2	-.2	.0	.0	.0	.0	.0	.0	.0	2.6	23.1	4.6	15.8
82.0	22.0	.2	-.2	.0	.0	.0	.0	.0	.0	.0	2.8	24.8	5.0	17.1
83.0	23.7	.2	-.2	.0	.0	.0	.0	.0	.0	.0	3.0	26.7	5.3	18.4
84.0	25.4	.2	-.2	.0	.0	.0	.0	.0	.0	.0	3.2	28.6	5.6	19.8
85.0	27.2	.2	-.2	.0	.0	.0	.0	.0	.0	.0	3.4	30.6	5.9	21.3
86.0	29.1	.3	-.2	.0	.0	.0	.0	.0	.0	.0	3.5	32.7	6.2	22.9
87.0	31.1	.3	-.3	.0	.0	.0	.0	.0	.0	.0	3.7	34.8	6.5	24.6
88.0	33.2	.3	-.3	.0	.0	.0	.0	.0	.0	.0	3.9	37.1	6.8	26.3
89.0	35.3	.3	-.3	.0	.0	.0	.0	.1	.0	.0	4.1	39.4	7.2	28.1
90.0	37.5	.3	-.3	.0	.0	.0	.0	.1	.0	.0	4.3	41.9	7.5	30.0
91.0	39.8	.3	-.3	.0	.0	.0	.0	.1	.0	.0	4.6	44.4	7.8	32.0
92.0	42.2	.3	-.3	.0	.0	.0	.0	.1	.0	.0	4.8	47.0	8.2	34.0
93.0	44.6	.3	-.3	.0	.0	.0	-.1	.1	.0	.0	5.0	49.6	8.5	36.2
94.0	47.2	.4	-.4	.0	.0	.0	-.1	.1	.0	.0	5.2	52.4	8.8	38.4
95.0	49.7	.4	-.4	.0	.0	.0	-.1	.1	.0	.0	5.4	55.2	9.1	40.6
96.0	52.4	.4	-.4	.0	.0	.0	-.1	.1	.0	.0	5.6	58.0	9.5	42.9
97.0	55.1	.4	-.4	.0	.0	.0	-.1	.1	.0	.0	5.9	61.0	9.8	45.3
98.0	57.9	.4	-.4	.0	.0	.0	-.1	.1	.0	.0	6.1	63.9	10.1	47.8
99.0	60.7	.4	-.4	.0	.0	.0	-.1	.1	.0	.0	6.3	67.0	10.4	50.3

MASS PROPERTIES

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	63.5	-.6	.3	.0	.0	.0	.1	-.1	.0	.0	6.5	70.1	10.7	52.8
101.0	66.4	-.6	.3	.0	.0	.0	.1	-.1	.0	.0	6.8	73.2	11.0	55.4
102.0	69.4	-.6	.3	.0	.0	.0	.1	-.1	.0	.0	7.0	76.4	11.3	58.1
103.0	72.4	-.7	.3	.0	.0	.0	.1	-.1	.0	.0	7.3	79.6	11.6	60.8
104.0	75.4	-.7	.3	.0	.0	.0	.1	-.1	.0	.0	7.5	82.9	11.9	63.5
105.0	78.4	-.7	.3	.0	.0	.0	.1	-.1	.0	.0	7.8	86.2	12.2	66.3
106.0	81.5	-.7	.3	.0	.0	.1	.1	-.1	.0	.0	8.1	89.5	12.4	69.0
107.0	84.6	-.7	.3	.0	.0	.1	.1	-.1	.0	.0	8.3	92.9	12.7	71.9
108.0	87.7	-.8	.4	.0	.0	.1	.1	-.1	.0	.0	8.6	96.3	13.0	74.7
109.0	90.8	-.8	.4	.0	.0	.1	.1	-.1	.0	.0	8.8	99.6	13.2	77.5
110.0	93.9	-.8	.4	.0	.0	.1	.1	-.1	.0	.0	9.1	103.0	13.5	80.4
111.0	97.1	-.8	.4	.0	.0	.1	.1	-.2	.0	.0	9.4	106.4	13.7	83.3
112.0	100.2	-.8	.4	.0	.0	.1	.1	-.2	.0	.0	9.7	109.7	13.9	86.1
113.0	103.3	-.8	.4	.0	.0	.1	.1	-.2	.0	.0	10.0	113.0	14.1	89.0
114.0	106.5	-.9	.4	.0	.0	.1	.1	-.2	.0	.0	10.2	116.2	14.2	91.8
115.0	109.6	-.9	.4	.0	.0	.1	.2	-.2	.0	.0	10.6	119.3	14.3	94.5
116.0	112.6	-.9	.4	.0	.0	.1	.2	-.2	.0	.0	10.9	122.4	14.3	97.2
117.0	115.7	-.9	.4	.0	.0	.1	.2	-.2	.0	.0	11.2	125.4	14.4	99.8
118.0	118.9	-.9	.4	.0	.0	.1	.2	-.2	.0	.0	11.5	128.4	14.5	102.4
119.0	119.4	-.9	.4	.0	.0	.1	.2	-.2	.0	.0	11.8	131.2	14.6	104.8
120.0	121.8	-1.0	.4	.0	.0	.1	.2	-.2	.0	.0	12.1	134.0	14.6	107.2
121.0	124.2	-1.0	.4	.0	.0	.1	.2	-.2	.0	.0	12.4	136.6	14.7	109.5
122.0	126.5	-1.0	.5	.0	.0	.1	.2	-.2	.0	.0	12.7	139.2	14.8	111.7
123.0	128.7	-1.0	.5	.0	.0	.1	.2	-.2	.0	.0	13.0	141.7	14.9	113.8
124.0	130.9	-1.0	.5	.0	.0	.1	.2	-.2	.0	.0	13.3	144.2	15.0	115.9
125.0	133.0	-1.0	.5	.0	.0	.1	.2	-.3	.0	.0	13.6	146.6	15.1	117.8
126.0	135.0	-1.0	.5	.0	.0	.1	.2	-.3	.0	.0	13.9	148.9	15.3	119.8
127.0	137.1	-1.0	.5	.0	.0	.1	.2	-.3	.0	.0	14.2	151.2	15.4	121.6
128.0	138.9	-1.0	.5	.0	.0	.1	.2	-.3	.0	.0	14.4	153.4	15.5	123.4
129.0	140.8	-1.1	.5	.0	.0	.1	.2	-.3	.0	.0	14.7	155.5	15.7	125.1
130.0	142.7	-1.1	.5	.0	.0	.1	.2	-.3	.0	.0	15.0	157.6	15.9	126.8
140.0	156.5	-1.1	.5	.0	.0	.1	.2	-.4	.0	.0	17.5	176.0	18.6	139.9
150.0	170.8	-1.2	.5	.0	.0	.1	.3	-.4	.0	.0	19.8	190.6	21.3	149.5
160.0	183.7	-1.2	.5	.0	.0	.2	.3	-.5	.0	.0	21.9	202.7	23.8	157.0
170.0	195.2	-1.3	.6	.0	.0	.2	.3	-.5	.0	.0	23.5	212.7	25.7	163.5
180.0	196.8	-1.3	.5	.0	.0	.2	.3	-.6	.0	.0	25.0	221.8	28.5	168.3
190.0	202.5	-1.3	.5	.0	.0	.2	.3	-.6	.0	.0	27.0	229.5	30.8	171.7
200.0	207.2	-1.3	.5	.0	.0	.2	.3	-.7	.0	.0	28.6	235.8	32.6	174.6
210.0	211.2	-1.3	.5	.0	.0	.2	.4	-.7	.0	.0	30.0	241.2	34.1	177.0
220.0	214.5	-1.3	.5	.0	.0	.2	.4	-.8	.0	.0	31.4	245.9	35.5	179.1
230.0	217.5	-1.3	.5	.0	.0	.2	.4	-.8	.0	.0	32.5	250.1	36.7	180.9
240.0	220.3	-1.3	.5	.0	.0	.3	.4	-.8	.0	.0	33.6	253.9	37.7	182.6
250.0	222.9	-1.3	.5	.0	.0	.3	.4	-.8	.0	.0	34.6	257.5	38.7	184.2
260.0	225.4	-1.3	.5	.0	.0	.3	.4	-.9	.0	.0	35.6	261.0	39.6	185.8
270.0	227.9	-1.3	.5	.0	.0	.3	.4	-.9	.0	.0	36.5	264.4	40.5	187.4
280.0	230.5	-1.3	.5	.0	.0	.3	.4	-.9	.0	.0	37.4	267.9	41.4	189.1
290.0	233.2	-1.3	.5	.0	.0	.3	.4	-.9	.0	.0	38.3	271.5	42.3	191.0
300.0	236.2	-1.3	.5	.0	.0	.3	.4	-1.0	.0	.0	39.1	275.3	43.2	193.0
310.0	239.3	-1.4	.4	.0	.0	.3	.4	-1.0	.0	.0	40.1	279.4	44.1	195.2
320.0	242.9	-1.4	.4	.0	.0	.3	.4	-1.0	.0	.0	41.0	283.9	45.1	197.7

MASS PROPERTIES

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	63.5	.4	-.5	.0	.0	.0	-.1	.1	.0	.0	6.5	70.1	10.7	52.8
101.0	66.4	.4	-.5	.0	.0	.0	-.1	.1	.0	.0	6.8	73.2	11.0	55.4
102.0	69.4	.5	-.5	.0	.0	.0	-.1	.1	.0	.0	7.0	76.4	11.3	58.1
103.0	72.4	.5	-.5	.0	.0	.0	-.1	.1	.0	.0	7.3	79.6	11.6	60.8
104.0	75.4	.5	-.5	.0	.0	.0	-.1	.1	.0	.0	7.5	82.9	11.9	63.5
105.0	78.4	.5	-.5	.0	.0	.0	-.1	.1	.0	.0	7.8	86.2	12.2	66.3
106.0	81.5	.5	-.6	.0	.0	.0	-.1	.1	.0	.0	8.1	89.5	12.4	69.0
107.0	84.6	.5	-.6	.0	.0	.0	-.1	.1	.0	.0	8.3	92.9	12.7	71.9
108.0	87.7	.5	-.6	.0	.0	.0	-.1	.2	.0	.0	8.6	96.3	13.0	74.7
109.0	90.9	.5	-.6	.0	.0	.0	-.1	.2	.0	.0	8.8	99.6	13.2	77.5
110.0	93.9	.5	-.6	.0	.0	.0	-.1	.2	.0	.0	9.1	103.0	13.5	80.4
111.0	97.0	.6	-.6	.0	.0	.0	-.1	.2	.0	.0	9.4	106.4	13.7	83.3
112.0	100.0	.6	-.6	.0	.0	.0	-.1	.2	.0	.0	9.7	109.7	13.9	86.1
113.0	103.0	.6	-.7	.0	.0	.0	-.1	.2	.0	.0	10.0	113.0	14.1	89.0
114.0	105.9	.6	-.7	.0	.0	.0	-.1	.2	.0	.0	10.2	116.2	14.2	91.8
115.0	108.8	.6	-.7	.0	.0	-.1	-.1	.2	.0	.0	10.6	119.3	14.3	94.5
116.0	111.6	.6	-.7	.0	.0	-.1	-.1	.2	.0	.0	10.9	122.4	14.3	97.2
117.0	114.2	.6	-.7	.0	.0	-.1	-.1	.2	.0	.0	11.2	125.4	14.4	99.8
118.0	116.9	.6	-.7	.0	.0	-.1	-.1	.2	.0	.0	11.5	128.4	14.5	102.4
119.0	119.4	.6	-.7	.0	.0	-.1	-.2	.2	.0	.0	11.8	131.2	14.6	104.8
120.0	121.8	.6	-.8	.0	.0	-.1	-.2	.2	.0	.0	12.1	134.0	14.6	107.2
121.0	124.2	.6	-.8	.0	.0	-.1	-.2	.3	.0	.0	12.4	136.6	14.7	109.5
122.0	126.5	.6	-.8	.0	.0	-.1	-.2	.3	.0	.0	12.7	139.2	14.8	111.7
123.0	128.7	.6	-.8	.0	.0	-.1	-.2	.3	.0	.0	13.0	141.7	14.9	113.8
124.0	130.9	.6	-.8	.0	.0	-.1	-.2	.3	.0	.0	13.3	144.2	15.0	115.9
125.0	133.0	.6	-.8	.0	.0	-.1	-.2	.3	.0	.0	13.6	146.6	15.1	117.8
126.0	135.0	.7	-.8	.0	.0	-.1	-.2	.3	.0	.0	13.9	148.9	15.3	119.8
127.0	137.0	.7	-.8	.0	.0	-.1	-.2	.3	.0	.0	14.2	151.2	15.4	121.6
128.0	138.9	.7	-.9	.0	.0	-.1	-.2	.3	.0	.0	14.4	153.4	15.5	123.4
129.0	140.8	.7	-.9	.0	.0	-.1	-.2	.3	.0	.0	14.7	155.5	15.7	125.1
130.0	142.7	.7	-.9	.0	.0	-.1	-.2	.3	.0	.0	15.0	157.6	15.9	126.8
140.0	159.5	.7	-1.0	.0	.0	-.1	-.2	.4	.0	.0	17.5	176.0	18.6	139.9
150.0	170.8	.7	-1.0	.0	.0	-.1	-.2	.4	.0	.0	19.8	190.6	21.3	149.5
160.0	180.7	.7	-1.1	.0	.0	-.1	-.3	.5	.0	.0	21.9	202.7	23.8	157.0
170.0	189.2	.7	-1.1	.0	.0	-.1	-.3	.5	.0	.0	23.5	212.7	25.7	163.5
180.0	196.8	.7	-1.2	.0	.0	-.2	-.3	.6	.0	.0	25.0	221.8	28.5	168.3
190.0	202.5	.6	-1.2	.0	.0	-.2	-.3	.6	.0	.0	27.0	229.5	30.8	171.7
200.0	207.2	.6	-1.2	.0	.0	-.2	-.3	.7	.0	.0	28.6	235.8	32.6	174.6
210.0	211.2	.6	-1.2	.0	.0	-.2	-.3	.7	.0	.0	30.0	241.2	34.1	177.0
220.0	214.5	.5	-1.2	.0	.0	-.2	-.4	.8	.0	.0	31.4	245.9	35.5	179.1
230.0	217.5	.5	-1.2	.0	.0	-.2	-.4	.8	.0	.0	32.5	250.1	36.7	180.9
240.0	220.3	.5	-1.2	.0	.0	-.2	-.4	.8	.0	.0	33.6	253.9	37.7	182.6
250.0	222.9	.5	-1.3	.0	.0	-.2	-.4	.9	.0	.0	34.6	257.5	38.7	184.2
260.0	225.4	.5	-1.3	.0	.0	-.2	-.4	.9	.0	.0	35.6	261.0	39.6	185.8
270.0	227.9	.5	-1.3	.0	.0	-.2	-.4	.9	.0	.0	36.5	264.4	40.5	187.4
280.0	230.5	.5	-1.3	.0	.0	-.2	-.4	.9	.0	.0	37.4	267.9	41.4	189.1
290.0	233.2	.5	-1.3	.0	.0	-.2	-.4	1.0	.0	.0	38.3	271.5	42.3	191.0
300.0	236.2	.5	-1.3	.0	.0	-.2	-.4	1.0	.0	.0	39.1	275.3	43.2	193.0
310.0	239.3	.5	-1.3	.0	.0	-.2	-.4	1.0	.0	.0	40.1	279.4	44.1	195.2
320.0	242.9	.5	-1.3	.0	.0	-.3	-.4	1.0	.0	.0	41.0	283.9	45.1	197.7

MASS PROPERTIES

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	246.8	-1.4	.4	.0	.0	.3	.5	-1.1	.0	.0	42.0	288.8	46.3	200.5
340.0	251.3	-1.5	.4	.0	.0	.3	.5	-1.1	.0	.0	43.1	294.4	47.5	203.8
350.0	256.4	-1.6	.4	.0	.0	.3	.5	-1.1	.0	.0	44.2	300.6	48.8	207.6
360.0	262.4	-1.6	.4	.0	.0	.4	.5	-1.2	.0	.0	45.4	307.8	50.2	212.1
370.0	269.3	-1.7	.4	.0	.0	.4	.5	-1.2	.0	.0	46.7	316.0	51.8	217.5
380.0	277.5	-1.9	.4	.0	.0	.4	.5	-1.2	.0	.0	48.0	325.5	53.4	224.1
390.0	287.2	-2.0	.4	.0	.0	.4	.5	-1.3	.0	.0	49.4	336.6	55.1	232.1
400.0	298.7	-2.2	.4	.0	.0	.4	.5	-1.3	.0	.0	50.8	349.5	56.8	241.9
410.0	312.4	-2.5	.4	.0	.0	.4	.6	-1.4	.0	.0	52.2	364.5	58.6	253.8
420.0	328.6	-2.8	.4	.0	.0	.4	.6	-1.4	.0	.0	53.5	382.1	60.4	268.2
430.0	347.8	-3.2	.5	.0	.0	.4	.6	-1.4	.0	.0	54.7	402.6	62.2	285.6
440.0	370.3	-3.6	.5	.0	.0	.5	.6	-1.5	.0	.0	55.8	426.2	63.9	306.4
450.0	396.2	-4.0	.5	.0	.0	.5	.6	-1.5	.0	.0	56.8	453.0	65.5	330.8
460.0	425.6	-4.4	.5	.0	.0	.5	.6	-1.5	.0	.0	57.6	483.1	66.8	358.8
470.0	458.1	-4.8	.6	.0	.0	.5	.6	-1.5	.0	.0	58.5	516.6	67.8	390.3

MASS PROPERTIES

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	246.8	.5	-1.3	.0	.0	-.3	-.4	1.1	.0	.0	42.0	288.8	46.3	200.5
340.0	251.3	.6	-1.4	.0	.0	-.3	-.5	1.1	.0	.0	43.1	294.4	47.5	203.8
350.0	256.4	.6	-1.4	.0	.0	-.3	-.5	1.1	.0	.0	44.2	300.6	48.8	207.6
360.0	262.4	.7	-1.4	.0	.0	-.3	-.5	1.2	.0	.0	45.4	307.8	50.2	212.1
370.0	269.3	.7	-1.4	.0	.0	-.3	-.5	1.2	.0	.0	46.7	316.0	51.8	217.5
380.0	277.5	.9	-1.4	.0	.0	-.4	-.5	1.2	.0	.0	48.0	325.5	53.4	224.1
390.0	287.2	1.0	-1.5	.0	.0	-.4	-.5	1.3	.0	.0	49.4	336.6	55.1	232.1
400.0	298.7	1.2	-1.5	.0	.0	-.4	-.5	1.3	.0	.0	50.8	349.5	56.8	241.9
410.0	312.4	1.4	-1.5	.0	.0	-.4	-.5	1.4	.0	.0	52.2	364.5	58.6	253.8
420.0	328.6	1.7	-1.5	.0	.0	-.4	-.5	1.4	.0	.0	53.5	382.1	60.4	268.2
430.0	347.8	2.0	-1.6	.0	.0	-.4	-.6	1.4	.0	.0	54.7	402.6	62.2	285.6
440.0	370.3	2.4	-1.6	.0	.0	-.4	-.6	1.5	.0	.0	55.8	426.2	63.9	306.4
450.0	396.2	2.8	-1.7	.0	.0	-.4	-.6	1.5	.0	.0	56.8	453.0	65.5	330.8
460.0	425.5	3.2	-1.7	.0	.0	-.4	-.6	1.5	.0	.0	57.6	483.1	66.8	358.8
470.0	458.1	3.6	-1.8	.0	.0	-.4	-.6	1.5	.0	.0	58.5	516.6	67.8	390.3

GN/C

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
22.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0
26.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	.0
27.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	.0
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.0
29.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.2	.0
30.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.2	.0
31.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3	.0
32.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3	.0
33.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3	.0
34.0	.5	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4	.0
35.0	.6	.0	.0	.0	.0	.0	.0	.0	.1	.7	.1	.4	.0
36.0	.6	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.5	.0
37.0	.7	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.6	.0
38.0	.8	.0	.0	.0	.0	.0	.0	.0	.1	.9	.2	.7	.0
39.0	.9	.0	.0	.0	.0	.0	.0	.0	.1	1.0	.2	.7	.0
40.0	1.0	.0	.0	.0	.0	.0	.0	.0	.1	1.2	.2	.8	.0
41.0	1.1	.0	.0	.0	.0	.0	.0	.0	.1	1.3	.2	.9	.0
42.0	1.3	.0	.0	.0	.0	.0	.0	.0	.1	1.4	.2	1.0	.0
43.0	1.4	.0	.0	.0	.0	.0	.0	.0	.1	1.5	.3	1.1	.0
44.0	1.5	.0	.0	.0	.0	.0	.0	.0	.1	1.7	.3	1.2	.0
45.0	1.7	.0	.0	.0	.0	.0	.0	.0	.1	1.8	.3	1.4	.0
46.0	1.8	.0	.0	.0	.0	.0	.0	.0	.1	2.0	.3	1.5	.0
47.0	2.0	.0	.0	.0	.0	.0	.0	.0	.1	2.1	.4	1.6	.0
48.0	2.1	.0	.0	.0	.0	.0	.0	.0	.1	2.3	.4	1.7	.0
49.0	2.3	.0	.0	.0	.0	.0	.0	.0	.2	2.5	.4	1.9	.0

GN/C

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
22.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
26.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.1
27.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.1
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
29.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.2
30.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.0	.2
31.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.0	.3
32.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.0	.3
33.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.0	.3
34.0	.5	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.0	.4
35.0	.6	.0	.0	.0	.0	.0	.0	.0	.1	.7	.1	.0	.4
36.0	.6	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.0	.5
37.0	.7	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.0	.6
38.0	.8	.0	.0	.0	.0	.0	.0	.0	.1	.9	.2	.0	.7
39.0	.9	.0	.0	.0	.0	.0	.0	.0	.1	1.0	.2	.0	.7
40.0	1.0	.0	.0	.0	.0	.0	.0	.0	.1	1.2	.2	.0	.8
41.0	1.1	.0	.0	.0	.0	.0	.0	.0	.1	1.3	.2	.0	.9
42.0	1.3	.0	.0	.0	.0	.0	.0	.0	.1	1.4	.2	.0	1.0
43.0	1.4	.0	.0	.0	.0	.0	.0	.0	.1	1.5	.3	.0	1.1
44.0	1.5	.0	.0	.0	.0	.0	.0	.0	.1	1.7	.3	.0	1.2
45.0	1.7	.0	.0	.0	.0	.0	.0	.0	.1	1.8	.3	.0	1.4
46.0	1.8	.0	.0	.0	.0	.0	.0	.0	.1	2.0	.3	.0	1.5
47.0	2.0	.0	.0	.0	.0	.0	.0	.0	.1	2.1	.4	.0	1.6
48.0	2.1	.0	.0	.0	.0	.0	.0	.0	.1	2.3	.4	.0	1.7
49.0	2.3	.0	.0	.0	.0	.0	.0	.0	.2	2.5	.4	.0	1.9

GN/C

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.6	.5	2.0
51.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.8	.5	2.2
52.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.0	.5	2.3
53.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.2	.6	2.5
54.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.5	.6	2.7
55.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.7	.6	2.8
56.0	3.7	.1	.0	.0	.0	.0	.0	.0	.0	.2	3.9	.7	3.0
57.0	3.9	.1	.0	.0	.0	.0	.0	.0	.0	.2	4.2	.7	3.2
58.0	4.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	4.4	.8	3.4
59.0	4.4	.1	.0	.0	.0	.0	.0	.0	.0	.3	4.7	.8	3.6
60.0	4.7	.1	.0	.0	.0	.0	.0	.0	.0	.3	5.0	.9	3.8
61.0	5.0	.1	.0	.0	.0	.0	.0	.0	.0	.4	5.4	.9	4.1
62.0	5.3	.1	.1	.0	.0	.0	.0	.0	.0	.4	5.7	1.0	4.3
63.0	5.6	.1	.1	.0	.0	-.1	.0	.0	.0	.4	6.1	1.1	4.6
64.0	6.0	.1	.1	.0	.0	-.1	.0	.0	.0	.5	6.5	1.2	4.8
65.0	6.4	.2	.1	.0	.0	-.1	.0	.0	.0	.6	7.0	1.3	5.1
66.0	6.8	.2	.1	.0	.0	-.1	.0	.0	.0	.6	7.4	1.4	5.4
67.0	7.3	.2	.1	.0	.0	-.1	.0	.0	.0	.7	8.0	1.5	5.8
68.0	7.8	.2	.1	.0	.0	-.1	.0	.0	.0	.8	8.6	1.6	6.2
69.0	8.4	.2	.1	-.1	.0	-.1	.0	.0	.0	.8	9.2	1.8	6.6
70.0	9.0	.3	.1	-.1	.0	-.1	.0	.0	.0	.9	9.9	1.9	7.0
71.0	9.6	.3	.2	-.1	.0	-.1	.0	.0	.0	1.1	10.7	2.1	7.5
72.0	10.3	.3	.2	-.1	.0	-.1	.0	.0	.0	1.2	11.5	2.3	8.1
73.0	11.1	.4	.2	-.1	.0	-.1	.0	.0	.0	1.3	12.5	2.5	8.6
74.0	12.0	.4	.2	-.1	.0	-.1	.0	.0	.0	1.5	13.5	2.7	9.3
75.0	13.0	.4	.2	-.1	.0	-.2	.0	.0	.0	1.6	14.6	3.0	10.0
76.0	14.0	.5	.3	-.1	.0	-.2	.0	.0	.0	1.8	15.8	3.2	10.8
77.0	15.1	.5	.3	-.1	.0	-.2	.0	.0	.0	1.9	17.0	3.5	11.6
78.0	16.3	.6	.3	-.1	.0	-.2	.0	.0	.0	2.1	18.4	3.8	12.5
79.0	17.6	.6	.3	-.1	.0	-.2	.0	.0	.0	2.3	19.9	4.1	13.5
80.0	19.0	.7	.4	-.1	.0	-.2	.0	.0	.0	2.5	21.4	4.3	14.6
81.0	20.5	.8	.4	-.1	.0	-.3	.0	.0	.0	2.6	23.1	4.6	15.8
82.0	22.0	.8	.5	-.2	.0	-.3	.0	.0	.0	2.8	24.8	5.0	17.1
83.0	23.7	.9	.5	-.2	.0	-.3	.0	.0	.0	3.0	26.7	5.3	18.4
84.0	25.4	1.0	.6	-.2	.0	-.3	.0	.0	.0	3.2	28.6	5.6	19.8
85.0	27.2	1.1	.6	-.2	.0	-.4	.0	.0	.0	3.4	30.6	5.9	21.3
86.0	29.1	1.2	.7	-.2	.0	-.4	.0	.0	.0	3.5	32.7	6.2	22.9
87.0	31.1	1.3	.7	-.2	.0	-.4	.0	.0	.0	3.7	34.8	6.5	24.6
88.0	33.2	1.4	.8	-.3	.0	-.4	.0	.0	.0	3.9	37.1	6.8	26.3
89.0	35.3	1.5	.9	-.3	.0	-.5	.0	.0	.0	4.1	39.4	7.2	28.1
90.0	37.5	1.6	.9	-.3	.0	-.5	.0	.0	.0	4.3	41.9	7.5	30.0
91.0	39.8	1.8	1.0	-.3	.0	-.6	.0	.0	.0	4.6	44.4	7.8	32.0
92.0	42.2	1.9	1.1	-.3	.0	-.6	.0	.0	.0	4.8	47.0	8.2	34.0
93.0	44.6	2.0	1.2	-.4	.1	-.6	.0	.0	.0	5.0	49.6	8.5	36.2
94.0	47.2	2.2	1.3	-.4	.1	-.7	.0	.0	.0	5.2	52.4	8.8	38.4
95.0	49.7	2.3	1.4	-.4	.1	-.7	.0	.0	.0	5.4	55.2	9.1	40.6
96.0	52.4	2.4	1.5	-.4	.1	-.8	.0	.0	.0	5.6	58.0	9.5	42.9
97.0	55.1	2.6	1.6	-.4	.1	-.8	.0	.0	.0	5.8	61.0	9.8	45.3
98.0	57.9	2.8	1.7	-.5	.1	-.9	.0	.1	.0	6.1	63.9	10.1	47.8
99.0	60.7	2.9	1.8	-.5	.1	-.9	.0	.1	.0	6.3	67.0	10.4	50.3

GN/C

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
90.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.6	.5	2.0
91.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.2	2.8	.5	2.2
92.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.0	.5	2.3
93.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.2	.6	2.5
94.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.5	.6	2.7
95.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.7	.6	2.8
96.0	3.7	-.1	.0	.0	.0	.0	.0	.0	.0	.2	3.9	.7	3.0
97.0	3.9	-.1	.0	.0	.0	.0	.0	.0	.0	.2	4.2	.7	3.2
98.0	4.2	-.1	.0	.0	.0	.0	.0	.0	.0	.3	4.4	.8	3.4
99.0	4.4	-.1	.0	.0	.0	.0	.0	.0	.0	.3	4.7	.8	3.6
100.0	4.7	-.1	.0	.0	.0	.0	.0	.0	.0	.3	5.0	.9	3.8
101.0	5.0	-.1	.0	.0	.0	.0	.0	.0	.0	.4	5.4	.9	4.1
102.0	5.3	-.1	-.1	.0	.0	.0	.0	.0	.0	.4	5.7	1.0	4.3
103.0	5.6	-.1	-.1	.0	.0	.1	.0	.0	.0	.4	6.1	1.1	4.6
104.0	6.0	-.1	-.1	.0	.0	.1	.0	.0	.0	.5	6.5	1.2	4.8
105.0	6.4	-.2	-.1	.0	.0	.1	.0	.0	.0	.6	7.0	1.3	5.1
106.0	6.8	-.2	-.1	.0	.0	.1	.0	.0	.0	.6	7.4	1.4	5.4
107.0	7.3	-.2	-.1	.0	.0	.1	.0	.0	.0	.7	8.0	1.5	5.8
108.0	7.8	-.2	-.1	.0	.0	.1	.0	.0	.0	.8	8.6	1.6	6.2
109.0	8.4	-.2	-.1	.1	.0	.1	.0	.0	.0	.8	9.2	1.8	6.6
110.0	9.0	-.3	-.1	.1	.0	.1	.0	.0	.0	.9	9.9	1.9	7.0
111.0	9.6	-.3	-.2	.1	.0	.1	.0	.0	.0	1.1	10.7	2.1	7.5
112.0	10.3	-.3	-.2	.1	.0	.1	.0	.0	.0	1.2	11.5	2.3	8.1
113.0	11.1	-.3	-.2	.1	.0	.1	.0	.0	.0	1.3	12.5	2.5	8.6
114.0	12.0	-.4	-.2	.1	.0	.1	.0	.0	.0	1.5	13.5	2.7	9.3
115.0	13.0	-.4	-.2	.1	.0	.2	.0	.0	.0	1.6	14.6	3.0	10.0
116.0	14.0	-.5	-.3	.1	.0	.2	.0	.0	.0	1.8	15.8	3.2	10.8
117.0	15.1	-.5	-.3	.1	.0	.2	.0	.0	.0	1.9	17.0	3.5	11.6
118.0	16.3	-.5	-.3	.1	.0	.2	.0	.0	.0	2.1	18.4	3.8	12.5
119.0	17.6	-.6	-.3	.1	.0	.2	.0	.0	.0	2.3	19.9	4.1	13.5
120.0	19.0	-.7	-.4	.1	.0	.2	.0	.0	.0	2.5	21.4	4.3	14.6
121.0	20.5	-.7	-.4	.1	.0	.3	.0	.0	.0	2.6	23.1	4.6	15.8
122.0	22.0	-.8	-.5	.2	.0	.3	.0	.0	.0	2.8	24.8	5.0	17.1
123.0	23.7	-.9	-.5	.2	.0	.3	.0	.0	.0	3.0	26.7	5.3	18.4
124.0	25.4	-1.0	-.6	.2	.0	.4	.0	.0	.0	3.2	28.6	5.6	19.8
125.0	27.2	-1.0	-.6	.2	.0	.4	.0	.0	.0	3.4	30.6	5.9	21.3
126.0	29.1	-1.1	-.7	.2	.0	.4	.0	.0	.0	3.6	32.7	6.2	22.9
127.0	31.1	-1.2	-.7	.2	.0	.4	.0	.0	.0	3.7	34.8	6.5	24.6
128.0	33.2	-1.3	-.8	.3	.0	.5	.0	.0	.0	3.9	37.1	6.8	26.3
129.0	35.3	-1.4	-.9	.3	.0	.5	.0	.0	.0	4.1	39.4	7.2	28.1
130.0	37.5	-1.5	-.9	.3	.0	.5	.0	.0	.0	4.3	41.9	7.5	30.0
131.0	39.8	-1.7	-1.0	.3	.0	.6	.0	.0	.0	4.6	44.4	7.8	32.0
132.0	42.2	-1.8	-1.1	.3	.0	.6	.0	.0	.0	4.8	47.0	8.2	34.0
133.0	44.6	-1.9	-1.2	.4	.0	.7	.0	.0	.0	5.0	49.6	8.5	36.2
134.0	47.2	-2.0	-1.3	.4	.0	.7	.0	.0	.0	5.2	52.4	8.8	38.4
135.0	49.7	-2.2	-1.4	.4	-.1	.8	.0	.0	.0	5.4	55.2	9.1	40.6
136.0	52.4	-2.3	-1.5	.4	-.1	.8	.0	.0	.0	5.6	58.0	9.5	42.9
137.0	55.1	-2.5	-1.6	.5	-.1	.9	.0	.0	.0	5.9	61.0	9.8	45.3
138.0	57.9	-2.6	-1.7	.5	-.1	.9	.0	.0	.0	6.1	63.9	10.1	47.8
139.0	60.7	-2.8	-1.8	.5	-.1	1.0	.0	.0	.0	6.3	67.0	10.4	50.3

GN/C

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+PSS	NOM+RSS	-RSS	NOM-RSS
100.0	63.5	3.1	1.9	-.5	.1	-1.0	.0	.1	.0	6.5	70.1	10.7	52.8
101.0	66.4	3.3	2.0	-.6	.1	-1.1	.0	.1	.0	6.8	73.2	11.0	55.4
102.0	69.4	3.4	2.1	-.6	.1	-1.1	.0	.1	.0	7.0	76.4	11.3	58.1
103.0	72.4	3.6	2.2	-.6	.1	-1.2	.0	.1	.0	7.3	79.6	11.6	60.8
104.0	75.4	3.8	2.3	-.6	.1	-1.2	.0	.1	.0	7.5	82.9	11.9	63.5
105.0	78.4	4.0	2.5	-.7	.1	-1.3	.0	.1	.0	7.8	86.2	12.2	66.3
106.0	81.5	4.2	2.6	-.7	.1	-1.4	.0	.1	.0	8.1	89.5	12.4	69.0
107.0	84.6	4.4	2.7	-.7	.1	-1.4	.0	.1	.0	8.3	92.9	12.7	71.9
108.0	87.7	4.6	2.8	-.8	.1	-1.5	.0	.1	.0	8.6	96.3	13.0	74.7
109.0	90.9	4.8	3.0	-.8	.1	-1.6	.0	.1	.0	8.8	99.6	13.2	77.5
110.0	93.9	5.0	3.1	-.8	.2	-1.6	.0	.1	.0	9.1	103.0	13.5	80.4
111.0	97.0	5.2	3.2	-.9	.2	-1.7	.0	.1	.0	9.4	106.4	13.7	83.3
112.0	100.0	5.4	3.4	-.9	.2	-1.8	.0	.1	.0	9.7	109.7	13.9	86.1
113.0	103.0	5.6	3.5	-.9	.2	-1.8	.0	.1	.0	10.0	113.0	14.1	89.0
114.0	105.9	5.8	3.6	-1.0	.2	-1.9	.0	.1	.0	10.2	116.2	14.2	91.8
115.0	108.9	6.0	3.7	-1.0	.2	-2.0	.0	.1	.0	10.6	119.3	14.3	94.5
116.0	111.8	6.2	3.9	-1.0	.2	-2.0	.0	.1	.0	10.9	122.4	14.3	97.2
117.0	114.2	6.3	4.0	-1.1	.2	-2.1	.0	.1	.0	11.2	125.4	14.4	99.8
118.0	116.9	6.5	4.1	-1.1	.2	-2.2	.0	.1	.0	11.5	128.4	14.5	102.4
119.0	119.4	6.7	4.2	-1.1	.2	-2.2	.0	.1	.0	11.8	131.2	14.6	104.8
120.0	121.8	6.9	4.3	-1.1	.2	-2.3	.0	.1	.0	12.1	134.0	14.6	107.2
121.0	124.2	7.1	4.5	-1.2	.2	-2.4	.0	.1	.0	12.4	136.6	14.7	109.5
122.0	126.5	7.2	4.6	-1.2	.2	-2.4	.0	.1	.0	12.7	139.2	14.8	111.7
123.0	128.7	7.4	4.7	-1.2	.2	-2.5	.0	.1	.0	13.0	141.7	14.9	113.8
124.0	130.9	7.5	4.8	-1.3	.3	-2.6	.0	.1	.0	13.3	144.2	15.0	115.9
125.0	133.0	7.7	4.9	-1.3	.3	-2.6	.0	.2	.0	13.6	146.6	15.1	117.8
126.0	135.0	7.9	5.0	-1.3	.3	-2.7	.0	.2	.0	13.9	148.9	15.3	119.8
127.0	137.0	8.0	5.1	-1.3	.3	-2.8	.0	.2	.0	14.2	151.2	15.4	121.6
128.0	138.9	8.2	5.2	-1.4	.3	-2.8	.0	.2	.0	14.4	153.4	15.5	123.4
129.0	140.8	8.3	5.3	-1.4	.3	-2.8	.0	.2	.0	14.7	155.5	15.7	125.1
130.0	142.7	8.5	5.4	-1.4	.3	-2.9	.0	.2	.0	15.0	157.6	15.9	126.8
140.0	158.5	9.9	6.4	-1.7	.4	-3.5	.0	.2	.0	17.5	176.0	18.6	139.9
150.0	170.8	11.1	7.2	-1.9	.4	-4.0	.0	.2	.0	19.8	190.6	21.3	149.5
160.0	180.7	12.2	7.9	-2.1	.5	-4.5	.0	.2	.0	21.9	202.7	23.8	157.0
170.0	189.2	13.1	8.5	-2.2	.5	-4.9	.0	.3	.0	23.5	212.7	25.7	163.5
180.0	196.8	14.0	9.2	-2.4	.5	-5.3	.0	.3	.0	25.0	221.8	28.5	168.3
190.0	202.5	15.2	9.9	-2.6	.6	-5.9	.0	.3	.0	27.0	229.5	30.8	171.7
200.0	207.2	16.0	10.5	-2.7	.6	-6.2	.0	.3	.0	28.6	235.8	32.6	174.6
210.0	211.2	16.7	11.0	-2.8	.7	-6.5	.0	.3	.0	30.0	241.2	34.1	177.0
220.0	214.5	17.4	11.4	-3.0	.7	-6.8	.0	.4	.0	31.4	245.9	35.5	179.1
230.0	217.5	17.9	11.8	-3.0	.7	-7.0	.0	.4	.0	32.5	250.1	36.7	180.9
240.0	220.3	18.4	12.1	-3.1	.7	-7.3	.0	.4	.0	33.6	253.9	37.7	182.6
250.0	222.9	18.9	12.5	-3.2	.8	-7.5	.0	.4	.0	34.6	257.5	38.7	184.2
260.0	225.4	19.4	12.8	-3.3	.8	-7.7	.0	.4	.0	35.6	261.0	39.6	185.8
270.0	227.9	19.8	13.1	-3.4	.8	-7.9	.0	.4	.0	36.5	264.4	40.5	187.4
280.0	230.5	20.2	13.3	-3.4	.8	-8.0	.0	.4	.0	37.4	267.9	41.4	189.1
290.0	233.2	20.6	13.6	-3.5	.8	-8.2	.0	.4	.0	38.3	271.5	42.3	191.0
300.0	236.2	21.0	13.9	-3.6	.9	-8.4	.0	.4	.0	39.1	275.3	43.2	193.0
310.0	239.3	21.5	14.2	-3.7	.9	-8.6	.0	.4	.0	40.1	279.4	44.1	195.2
320.0	242.9	21.9	14.5	-3.7	.9	-8.8	.0	.5	.0	41.0	283.9	45.1	197.7

GN/C

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	83.5	-2.9	-1.9	.5	-.1	1.0	.0	.0	.0	6.5	70.1	10.7	52.8
101.0	86.4	-3.1	-2.0	.6	-.1	1.1	.0	.0	.0	6.8	73.2	11.0	55.4
102.0	89.4	-3.3	-2.1	.6	-.1	1.1	.0	-.1	.0	7.0	76.4	11.3	58.1
103.0	92.4	-3.5	-2.2	.6	-.1	1.2	.0	-.1	.0	7.3	79.6	11.6	60.8
104.0	95.4	-3.6	-2.3	.7	-.1	1.3	.0	-.1	.0	7.5	82.9	11.9	63.5
105.0	98.4	-3.8	-2.5	.7	-.1	1.3	.0	-.1	.0	7.8	86.2	12.2	66.3
106.0	81.5	-4.0	-2.6	.7	-.1	1.4	.0	-.1	.0	8.1	89.5	12.4	69.0
107.0	84.6	-4.2	-2.7	.8	-.1	1.5	.0	-.1	.0	8.3	92.9	12.7	71.9
108.0	87.7	-4.4	-2.8	.8	-.1	1.5	.0	-.1	.0	8.6	96.3	13.0	74.7
109.0	90.8	-4.6	-3.0	.8	-.1	1.6	.0	-.1	.0	8.8	99.6	13.2	77.5
110.0	93.9	-4.8	-3.1	.8	-.1	1.7	.0	-.1	.0	9.1	103.0	13.5	80.4
111.0	97.0	-5.0	-3.3	.9	-.1	1.8	.0	-.1	.0	9.4	106.4	13.7	83.3
112.0	100.0	-5.1	-3.4	.9	-.2	1.8	.0	-.1	.0	9.7	109.7	13.9	86.1
113.0	103.1	-5.3	-3.5	.9	-.2	1.9	.0	-.1	.0	10.0	113.0	14.1	89.0
114.0	106.9	-5.5	-3.6	1.0	-.2	2.0	.0	-.1	.0	10.2	116.2	14.2	91.8
115.0	108.5	-5.7	-3.8	1.0	-.2	2.0	.0	-.1	.0	10.6	119.3	14.3	94.5
116.0	111.6	-5.9	-3.9	1.0	-.2	2.1	.0	-.1	.0	10.9	122.4	14.3	97.2
117.0	114.2	-6.1	-4.0	1.1	-.2	2.2	.0	-.1	.0	11.2	125.4	14.4	99.8
118.0	116.9	-6.2	-4.1	1.1	-.2	2.3	.0	-.1	.0	11.5	128.4	14.5	102.4
119.0	119.4	-6.4	-4.3	1.1	-.2	2.3	.0	-.1	.0	11.8	131.2	14.6	104.8
120.0	121.6	-6.6	-4.4	1.2	-.2	2.4	.0	-.1	.0	12.1	134.0	14.6	107.2
121.0	124.2	-6.7	-4.5	1.2	-.2	2.5	.0	-.1	.0	12.4	136.6	14.7	109.5
122.0	126.9	-6.9	-4.6	1.2	-.2	2.5	.0	-.1	.0	12.7	139.2	14.8	111.7
123.0	128.7	-7.1	-4.7	1.2	-.2	2.6	.0	-.1	.0	13.0	141.7	14.9	113.8
124.0	130.9	-7.2	-4.8	1.3	-.2	2.7	.0	-.1	.0	13.3	144.2	15.0	115.9
125.0	133.1	-7.4	-5.0	1.3	-.2	2.7	.0	-.1	.0	13.6	146.6	15.1	117.8
126.0	135.1	-7.5	-5.1	1.3	-.3	2.8	.0	-.1	.0	13.9	148.9	15.3	119.8
127.0	137.1	-7.7	-5.2	1.3	-.3	2.8	.0	-.1	.0	14.2	151.2	15.4	121.6
128.0	138.9	-7.8	-5.3	1.4	-.3	2.9	.0	-.1	.0	14.4	153.4	15.5	123.4
129.0	140.8	-8.0	-5.4	1.4	-.3	3.0	.0	-.1	.0	14.7	155.5	15.7	125.1
130.0	142.7	-8.1	-5.5	1.4	-.3	3.0	.0	-.1	.0	15.0	157.6	15.9	126.8
140.0	158.5	-9.5	-6.5	1.7	-.3	3.6	.0	-.2	.0	17.5	176.0	18.6	139.9
150.0	173.8	-10.7	-7.3	1.9	-.4	4.2	.0	-.2	.0	19.8	190.6	21.3	149.5
160.0	188.7	-11.7	-8.1	2.1	-.4	4.7	.0	-.2	.0	21.9	202.7	23.8	157.0
170.0	189.2	-12.5	-8.6	2.2	-.5	5.0	.0	-.2	.0	23.5	212.7	25.7	163.5
180.0	196.9	-13.6	-9.4	2.4	-.5	5.5	.0	-.3	.0	25.0	221.8	28.5	168.3
190.0	202.5	-14.5	-10.1	2.6	-.6	6.0	.0	-.3	.0	27.0	229.5	30.8	171.7
200.0	207.1	-15.3	-10.7	2.7	-.6	6.4	.0	-.3	.0	28.6	235.8	32.6	174.6
210.0	211.2	-16.0	-11.2	2.9	-.6	6.7	.0	-.3	.0	30.0	241.2	34.1	177.0
220.0	214.5	-16.6	-11.6	3.0	-.7	7.0	.0	-.3	.0	31.4	245.9	35.5	179.1
230.0	217.5	-17.1	-12.0	3.1	-.7	7.2	.0	-.3	.0	32.5	250.1	36.7	180.9
240.0	220.3	-17.5	-12.3	3.2	-.7	7.5	.0	-.4	.0	33.6	253.9	37.7	182.6
250.0	222.9	-18.0	-12.6	3.3	-.7	7.7	.0	-.4	.0	34.6	257.5	38.7	184.2
260.0	225.4	-18.4	-12.9	3.3	-.8	8.0	.0	-.4	.0	35.6	261.0	39.6	185.8
270.0	227.9	-18.8	-13.2	3.4	-.8	8.2	.0	-.4	.0	36.5	264.4	40.5	187.4
280.0	230.5	-19.2	-13.5	3.5	-.8	8.4	.0	-.4	.0	37.4	267.9	41.4	189.1
290.0	233.2	-19.5	-13.8	3.6	-.8	8.6	.0	-.4	.0	38.3	271.5	42.3	191.0
300.0	236.2	-19.9	-14.1	3.6	-.8	8.8	.0	-.4	.0	39.1	275.3	43.2	193.0
310.0	239.3	-20.3	-14.4	3.7	-.9	9.0	.0	-.4	.0	40.1	279.4	44.1	195.2
320.0	242.9	-20.8	-14.7	3.8	-.9	9.2	.0	-.4	.1	41.0	283.9	45.1	197.7

GN/C

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	246.6	22.4	14.6	-3.8	.9	-9.1	.0	.5	.0	42.0	288.8	46.3	200.5
340.0	251.3	22.9	15.2	-3.9	.9	-9.3	.0	.5	.0	43.1	294.4	47.5	203.8
350.0	256.4	23.4	15.5	-4.0	1.0	-9.6	.0	.5	.0	44.2	300.6	48.8	207.6
360.0	262.4	24.0	15.9	-4.2	1.0	-9.9	.0	.5	.0	45.4	307.8	50.2	212.1
370.0	269.3	24.6	16.3	-4.3	1.0	-10.2	.0	.5	-.1	46.7	316.0	51.8	217.5
380.0	277.5	25.2	16.8	-4.4	1.1	-10.6	.0	.5	-.1	48.0	325.5	53.4	224.1
390.0	287.2	25.8	17.2	-4.5	1.1	-10.9	.0	.5	-.2	49.4	336.6	55.1	232.1
400.0	298.7	26.5	17.7	-4.6	1.1	-11.2	.0	.6	-.3	50.8	349.5	56.8	241.9
410.0	312.4	27.1	18.1	-4.8	1.2	-11.5	.0	.6	-.4	52.2	364.5	58.6	253.8
420.0	328.6	27.8	18.5	-4.9	1.2	-11.8	.0	.6	-.5	53.5	382.1	60.4	268.2
430.0	347.8	28.4	18.9	-5.0	1.2	-12.1	.0	.6	-.8	54.7	402.6	62.2	285.6
440.0	370.3	28.9	19.3	-5.1	1.3	-12.4	.0	.6	-1.1	55.8	426.2	63.9	306.4
450.0	396.2	29.3	19.6	-5.2	1.3	-12.6	.0	.6	-1.6	56.8	453.0	65.5	330.8
460.0	425.5	29.6	19.8	-5.2	1.3	-12.7	.0	.6	-2.2	57.6	483.1	66.8	358.8
470.0	458.1	29.8	19.9	-5.3	1.3	-12.8	.0	.7	-2.9	58.5	516.6	67.8	390.3

GN/C

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	246.8	-21.3	-15.0	3.9	-.9	9.4	.0	-.4	.1	42.0	288.8	46.3	200.5
340.0	251.3	-21.8	-15.4	4.0	-.9	9.7	.0	-.4	.1	43.1	294.4	47.5	203.8
350.0	256.4	-22.4	-15.8	4.1	-1.0	9.9	.0	-.5	.1	44.2	300.6	48.8	207.6
360.0	262.4	-23.0	-16.3	4.2	-1.0	10.2	.0	-.5	.2	45.4	307.8	50.2	212.1
370.0	269.3	-23.6	-16.7	4.3	-1.0	10.5	.0	-.5	.2	46.7	316.0	51.8	217.5
380.0	277.5	-24.3	-17.2	4.4	-1.1	10.8	.0	-.5	.3	48.0	325.5	53.4	224.1
390.0	287.2	-25.0	-17.7	4.5	-1.1	11.1	.0	-.5	.3	49.4	336.6	55.1	232.1
400.0	298.7	-25.7	-18.2	4.7	-1.1	11.5	.0	-.5	.4	50.8	349.5	56.8	241.9
410.0	312.4	-26.4	-18.7	4.8	-1.2	11.8	.0	-.5	.6	52.2	364.5	58.6	253.8
420.0	328.6	-27.0	-19.2	4.9	-1.2	12.1	.0	-.6	.8	53.5	382.1	60.4	268.2
430.0	347.8	-27.7	-19.6	5.0	-1.2	12.4	.0	-.6	1.0	54.7	402.6	62.2	285.6
440.0	370.3	-28.2	-20.0	5.1	-1.2	12.7	.0	-.6	1.4	55.8	426.2	63.9	306.4
450.0	396.2	-28.7	-20.3	5.2	-1.3	12.9	.0	-.6	1.9	56.8	453.0	65.5	330.8
460.0	425.5	-29.0	-20.6	5.3	-1.3	13.0	.0	-.6	2.5	57.6	483.1	66.8	358.8
470.0	458.1	-29.2	-20.7	5.3	-1.3	13.1	.0	-.6	3.2	58.5	516.6	67.8	390.3

PROPULSION

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	-3.7	-.4	.0	.0	.1	.0	-.4	.0	.1	.0	-.1	.0	.9	-2.9	.9	-4.6
2.0	3.0	.3	.0	.0	-.1	.0	.1	.0	.0	.0	.0	.0	.4	3.4	.3	2.7
3.0	4.8	.5	.0	-.1	-.1	-.1	.2	.0	.0	.0	.1	.0	.6	5.4	.6	4.2
4.0	5.4	.6	.0	-.1	-.2	-.1	.3	.0	.0	.0	.1	.0	.8	6.2	.7	4.7
5.0	5.9	.6	.0	-.1	-.2	-.1	.4	.0	.0	.0	.1	.0	.8	6.6	.8	5.0
6.0	5.9	.6	.0	-.1	-.2	-.1	.4	.0	.0	.0	.1	.0	.9	6.8	.8	5.1
7.0	6.0	.6	.0	-.1	-.2	-.1	.5	.0	.0	.0	.1	.0	.9	6.8	.8	5.2
8.0	6.5	.2	.0	-.1	-.2	-.1	.5	.0	.0	.0	.1	.0	.7	7.2	.8	5.7
9.0	7.3	.2	.0	-.1	-.3	-.1	.5	.1	.0	.0	.1	.0	.7	8.2	.9	6.6
10.0	8.3	.2	.0	-.1	-.4	-.2	.5	.3	.0	.0	.1	.0	.8	9.0	.9	7.4
11.0	8.6	.4	.0	.0	-.4	-.2	.4	.4	.0	.0	.1	.1	.8	9.4	.9	7.7
12.0	8.5	.5	.0	.0	-.5	-.2	.3	.5	.0	.0	.1	.1	.9	9.4	.8	7.7
13.0	8.3	.5	.0	.0	-.5	-.2	.3	.5	.0	.0	.1	.1	.9	9.2	.8	7.5
14.0	7.9	.4	.0	.0	-.5	-.2	.2	.5	.0	.0	.0	.1	.9	8.8	.7	7.2
15.0	7.5	.4	.0	.0	-.5	-.2	.1	.6	.0	.0	.0	.1	.9	8.4	.6	6.9
16.0	7.1	.3	.0	.0	-.4	-.2	.0	.6	.0	.0	.0	.1	.8	7.9	.6	6.5
17.0	6.3	.5	.0	.0	-.4	-.2	.0	.6	.0	.0	.0	.1	1.1	7.4	.6	5.7
18.0	4.8	.7	.0	.0	-.3	-.1	.0	.5	.0	.0	.0	.1	1.3	6.1	.4	4.4
19.0	3.6	.3	.0	.1	-.1	.0	.0	.5	.0	.0	.0	.1	1.0	4.5	.5	3.1
20.0	2.9	-.1	.0	.1	-.1	.0	.1	.4	.0	.0	.0	.1	.9	3.7	.6	2.3
21.0	2.3	-.2	.0	.1	-.1	.0	.1	.4	.0	.0	.0	.1	.8	3.1	.6	1.7
22.0	1.7	.0	.0	.1	-.4	-.2	.1	.4	.0	.0	.0	.1	.8	2.4	1.3	.4
23.0	1.0	.1	.0	.1	-.6	-.2	.1	.4	.0	.0	.0	.1	.8	1.9	1.4	-.4
24.0	.4	.4	.0	.0	-.5	-.2	.1	.3	.0	.0	.0	.1	.9	1.3	1.3	-.9
25.0	-.3	.4	.0	.0	-.4	-.2	.1	.3	.0	.0	.0	.1	.9	.6	1.1	-1.4
26.0	-.9	.4	.0	.0	-.4	-.2	.1	.3	.0	.0	.0	.0	.9	.0	1.1	-2.0
27.0	-1.6	.5	.0	.0	-.3	-.1	.1	.2	.0	.0	.0	.0	1.0	-.6	.8	-2.4
28.0	-2.1	.3	.0	.1	-.1	.0	.1	.2	.0	.0	.0	.0	.9	-1.2	.7	-2.7
29.0	-2.5	-.1	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.8	-1.4	.7	-3.0
30.0	-2.3	-.3	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.9	-1.4	.8	-3.1
31.0	-2.3	-.4	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.9	-1.4	.9	-3.1
32.0	-2.3	-.4	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.8	-1.4	.9	-3.1
33.0	-2.3	-.3	.0	.0	-.1	-.1	.0	.1	.0	.0	.0	.0	.8	-1.5	.9	-3.2
34.0	-2.4	-.2	.0	.0	-.5	-.4	.0	.1	.0	.0	.0	.0	.9	-1.5	1.3	-3.7
35.0	-2.9	-.1	.0	.0	-.9	-.7	.0	.1	.0	.0	.0	.0	.9	-1.6	1.8	-4.3
36.0	-2.6	-.1	.0	.0	-1.2	-1.2	.0	.0	.0	.0	.0	.0	.9	-1.7	2.3	-4.8
37.0	-2.6	-.2	.0	.0	-1.4	-1.4	.0	.0	.0	.0	.0	.0	.8	-1.7	2.5	-5.1
38.0	-2.7	-.1	.0	.0	-1.3	-1.4	.0	.0	.0	.0	.0	.0	.8	-1.9	2.3	-5.0
39.0	-2.6	.0	.0	.0	-1.1	-1.2	.0	.0	.0	.0	.0	.0	.7	-2.1	1.9	-4.7
40.0	-2.9	.1	.0	.0	-.9	-1.0	.0	.0	.0	.0	.0	.0	.7	-2.3	1.5	-4.5
41.0	-3.0	.0	.0	.0	-.7	-.8	.0	.0	.0	.0	.0	.0	.6	-2.3	1.3	-4.2
42.0	-3.0	-.2	.0	.0	-.4	-.6	.0	.0	.0	.0	.0	.0	.6	-2.4	1.0	-4.0
43.0	-3.1	-.1	.0	.0	-.1	-.3	.0	.0	.0	.0	.0	.0	.6	-2.4	.7	-3.8
44.0	-3.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.6	-3.8
45.0	-3.3	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
46.0	-3.3	-.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
47.0	-3.2	-.3	.0	.1	-.2	-.2	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
48.0	-3.2	-.3	.0	.0	-.2	-.3	.0	.0	.0	.0	.0	.0	.7	-2.5	.8	-4.0
49.0	-3.2	-.3	.0	.0	-.1	-.3	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9

PROPULSION

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	-3.7	.4	.0	.0	-.1	.4	.0	-.1	.0	.0	.1	.0	.9	-2.9	.9	-4.6
2.0	2.0	-.3	.0	.0	.1	.0	-.1	.0	.0	.0	.0	.0	.4	3.4	.3	2.7
3.0	4.8	-.4	.0	.1	.1	.1	-.2	.0	.0	.0	-.1	.0	.6	5.4	.6	4.2
4.0	5.4	-.5	.0	.1	.2	.1	-.3	.0	.0	.0	-.1	.0	.8	6.2	.7	4.7
5.0	5.8	-.5	.0	.1	.2	.1	-.4	.0	.0	.0	-.1	.0	.8	6.6	.8	5.0
6.0	5.9	-.5	.0	.1	.2	.1	-.4	.0	.0	.0	-.1	.0	.9	6.8	.8	5.1
7.0	6.0	-.4	.0	.1	.2	.1	-.5	.0	-.1	.0	-.1	.0	.9	6.8	.8	5.2
8.0	6.5	-.2	.0	-.1	.0	.0	-.5	.0	-.2	.0	-.1	.0	.7	7.2	.8	5.7
9.0	7.5	-.1	.0	-.1	-.1	-.1	-.5	.0	-.2	.0	-.1	.0	.7	8.2	.9	6.6
10.0	8.3	-.3	.0	.0	-.2	.1	-.5	.0	-.1	.0	-.1	.0	.8	9.0	.9	7.4
11.0	8.6	-.4	.1	.1	-.2	.2	-.4	.0	.0	.0	-.1	.0	.8	9.4	.9	7.7
12.0	8.5	-.3	.0	.1	-.3	.3	-.3	.0	.0	.0	-.1	.0	.9	9.4	.8	7.7
13.0	8.3	-.3	.0	.1	-.3	.3	-.2	.0	.1	.0	-.1	.0	.9	9.2	.8	7.5
14.0	7.9	-.2	.0	.1	-.4	.3	-.1	.0	.1	.0	.0	.0	.9	8.8	.7	7.2
15.0	7.5	-.1	.0	.1	-.4	.3	-.1	.0	.1	.0	.0	.0	.9	8.4	.6	6.9
16.0	7.1	-.1	.0	.1	-.4	.3	.0	.0	.1	.0	.0	.0	.8	7.9	.6	6.5
17.0	6.2	-.3	.0	.3	-.3	.5	.1	.0	.3	.0	.0	.0	1.1	7.4	.6	5.7
18.0	4.8	-.1	.0	.3	-.2	.5	.0	.0	.3	.0	.0	.0	1.3	6.1	.4	4.4
19.0	3.6	.3	.0	.2	-.4	.4	.0	.0	.3	.0	.0	.0	1.0	4.5	.5	3.1
20.0	2.9	.3	.0	.2	-.4	.3	.0	.0	.2	.0	.0	.0	.9	3.7	.6	2.3
21.0	2.3	-.2	.0	.3	-.4	.3	-.1	.0	.2	.0	.0	.0	.8	3.1	.6	1.7
22.0	1.7	-1.1	.0	.2	-.3	.3	-.1	.0	.2	.0	.0	.0	.8	2.4	1.3	.4
23.0	1.0	-1.2	.0	.2	-.2	.3	-.1	.0	.2	.0	.0	.0	.8	1.8	1.4	-.4
24.0	.4	-1.0	.0	.2	-.2	.3	-.1	.0	.2	.0	.0	.0	.9	1.3	1.3	-.9
25.0	-.2	-.9	.0	.2	-.1	.2	-.1	.0	.2	.0	.0	.0	.9	.6	1.1	-1.4
26.0	-.9	-.8	.0	.2	-.1	.2	-.1	.0	.1	.0	.0	.0	.9	.0	1.1	-2.0
27.0	-1.6	-.4	.0	.1	.0	.2	-.1	.0	.1	.0	.0	.0	1.0	-.6	.8	-2.4
28.0	-2.1	.0	.0	.1	-.1	.1	.0	.0	.1	.0	.0	.0	.9	-1.2	.7	-2.7
29.0	-2.3	.2	.0	.0	-.2	.1	.0	.0	.1	.0	.0	.0	.8	-1.4	.7	-3.0
30.0	-2.3	.3	.0	.0	-.2	.0	.0	.0	.0	.0	.0	.0	.9	-1.4	.8	-3.1
31.0	-2.3	.2	.0	.0	-.2	.0	.0	.0	.0	.0	.0	.0	.9	-1.4	.9	-3.1
32.0	-2.3	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.8	-1.4	.9	-3.1
33.0	-2.3	-.4	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.8	-1.5	.9	-3.2
34.0	-2.4	-.8	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.9	-1.5	1.3	-3.7
35.0	-2.5	-1.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.9	-1.6	1.8	-4.3
36.0	-2.6	-1.3	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.9	-1.7	2.3	-4.8
37.0	-2.6	-1.3	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.8	-1.7	2.5	-5.1
38.0	-2.7	-1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-1.9	2.3	-5.0
39.0	-2.8	-.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.1	1.9	-4.7
40.0	-2.9	-.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.3	1.5	-4.5
41.0	-3.0	-.3	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.6	-2.3	1.3	-4.2
42.0	-3.0	-.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.6	-2.4	1.0	-4.0
43.0	-3.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	-2.4	.7	-3.8
44.0	-3.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.6	-3.8
45.0	-3.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
46.0	-3.3	.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
47.0	-3.3	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
48.0	-3.3	.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.8	-4.0
49.0	-3.3	.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9

PROPULSION

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	-3.2	-.3	.0	.0	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
51.0	-3.3	-.2	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
52.0	-3.3	-.2	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
53.0	-3.3	-.3	.0	.0	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	-2.6	.7	-3.9
54.0	-3.2	-.3	.0	.0	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
55.0	-3.2	-.3	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.7	-3.9
56.0	-3.3	-.2	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
57.0	-3.3	-.2	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
58.0	-3.3	-.2	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
59.0	-3.2	-.3	.0	.1	.0	-.2	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
60.0	-3.1	-.5	.0	.1	-.1	-.2	.0	.0	.0	.0	.0	.0	.8	-2.3	.8	-3.9
61.0	-2.9	-.6	.0	.1	-.1	-.3	.0	.0	.0	.0	.0	.0	.9	-2.0	.9	-3.8
62.0	-2.6	-.8	.0	.2	-.1	-.4	.0	.0	.1	.0	.0	.0	1.0	-1.6	1.2	-3.8
63.0	-2.4	-1.1	.0	.2	-.1	-.4	.0	.0	.1	.0	.0	.0	1.0	-1.2	1.4	-3.6
64.0	-1.9	-1.2	.0	.1	-.1	-.4	.0	.0	.0	.0	.0	.0	1.0	-.8	1.5	-3.4
65.0	-1.5	-1.2	.0	.1	-.1	-.4	.0	.0	.1	.0	.0	.0	1.1	-.4	1.5	-3.0
66.0	-1.2	-1.2	.0	.1	.0	-.3	.0	.0	.0	.0	.0	.0	1.1	-.1	1.5	-2.6
67.0	-.9	-1.2	.0	.1	.0	-.3	.0	.0	.0	.0	.0	.0	1.0	.2	1.4	-2.3
68.0	-.5	-1.2	.0	.1	.0	-.3	.0	.0	.0	.0	.0	.0	1.4	.9	1.4	-1.9
69.0	-.1	-1.2	.0	.3	.0	-.5	.0	.0	.1	.0	.0	.0	1.6	1.5	1.6	-1.7
70.0	.7	-1.7	.0	.1	.0	-.9	-.5	-.5	.1	.0	.0	.0	.8	1.5	2.2	-1.5
71.0	.7	-1.4	.0	.0	.0	-.1	-.3	-.3	.0	.0	.0	.0	.6	1.3	1.6	-.8
72.0	.5	-.3	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	1.1	1.5	.6	-.1
73.0	.5	-.3	.0	.1	.0	-.2	.4	.4	.0	.0	.0	.0	1.5	2.0	.8	-.3
74.0	.8	-.8	.0	.1	.0	-.3	.3	.2	.1	.0	.0	.0	1.6	2.4	1.2	-.4
75.0	1.2	-1.2	.0	.2	.0	-.4	.2	.1	.1	.0	.0	.0	1.5	2.7	1.6	-.4
76.0	1.5	-1.3	.0	.1	.0	-.3	.1	.0	.1	.0	.0	.0	1.5	3.0	1.6	-.1
77.0	1.8	-1.3	.0	.1	.0	-.3	.1	.0	.1	.0	.0	.0	1.5	3.2	1.6	.2
78.0	2.1	-1.2	.0	.1	.0	-.3	.1	.0	.1	.0	.0	.0	1.3	3.4	1.6	.4
79.0	2.2	-1.2	.0	.1	.0	-.3	.1	.0	.0	.0	.0	.0	1.2	3.4	1.6	.6
80.0	2.2	-.9	.0	.1	.0	-.2	.2	.1	.0	.0	.0	.0	1.3	3.4	1.4	.8
81.0	2.0	-.6	.0	.0	.2	-.2	.2	.1	.0	.0	.0	.0	1.4	3.5	1.2	.8
82.0	2.0	-.4	.0	.1	.0	-.2	.2	.1	.0	.0	.0	.0	1.6	3.5	1.3	.7
83.0	1.9	-.5	.0	.1	.0	-.3	.2	.1	.0	.0	.0	.0	1.7	3.7	1.4	.5
84.0	2.0	-.6	.0	.1	.0	-.3	.2	.1	.0	.0	.0	.0	1.8	3.7	1.6	.4
85.0	2.1	-.8	.0	.1	.0	-.3	.2	.1	.0	.0	.0	.0	1.8	3.8	1.7	.3
86.0	2.0	-.8	.0	.1	-.1	-.3	.2	.0	.0	.0	.0	.0	1.8	3.8	1.8	.2
87.0	2.0	-.8	.0	.1	-.1	-.3	.2	.0	.0	.0	.0	.0	1.9	3.9	1.8	.2
88.0	2.0	-.9	.0	.1	-.1	-.3	.2	.0	.1	.0	.0	.0	1.9	3.9	1.8	.2
89.0	2.1	-1.0	.0	.1	-.1	-.3	.2	.0	.1	.0	.0	.0	1.9	4.0	1.9	.2
90.0	2.2	-1.0	.0	.1	-.1	-.3	.3	.0	.0	.0	.0	.0	1.8	4.0	1.9	.3
91.0	2.2	-1.0	.0	.1	-.1	-.3	.3	.0	.0	.0	.0	.0	1.8	4.0	1.8	.3
92.0	2.2	-.9	.0	.1	-.1	-.3	.3	.0	.0	.0	.0	.0	1.8	4.0	1.8	.4
93.0	2.2	-.8	.0	.1	-.1	-.3	.2	.0	.0	.0	.0	.0	1.8	4.0	1.7	.4
94.0	2.2	-.8	.0	.1	-.1	-.3	.2	.0	.0	.0	.0	.0	1.8	4.0	1.7	.5
95.0	2.2	-.8	.0	.1	-.1	-.3	.3	.0	.1	.0	.0	.0	1.8	4.0	1.7	.5
96.0	2.2	-.8	.0	.1	-.1	-.3	.3	.0	.1	.0	.0	.0	1.8	4.0	1.7	.5
97.0	2.2	-.8	.0	.1	-.1	-.3	.3	.0	.1	.0	.0	.0	1.8	4.0	1.7	.5
98.0	2.2	-.8	.0	.1	-.1	-.3	.3	.0	.1	.0	.0	.0	1.8	4.0	1.7	.6
99.0	2.3	-.8	.0	.1	-.1	-.3	.3	.0	.1	.0	.0	.0	1.7	4.0	1.7	.6

PROPULSION

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	-3.2	.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
51.0	-3.3	.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
52.0	-3.3	.2	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
53.0	-3.3	.2	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.7	-3.9
54.0	-3.3	.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
55.0	-3.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.7	-3.9
56.0	-3.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
57.0	-3.3	.3	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
58.0	-3.3	.3	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
59.0	-3.2	.4	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
60.0	-3.1	.5	.0	-.1	-.2	-.1	.0	.0	.0	.0	.0	.0	.8	-2.3	.8	-3.9
61.0	-2.9	.6	.0	-.1	-.3	-.1	.0	.0	.0	.0	.0	.0	.9	-2.0	.9	-3.8
62.0	-2.6	.7	.0	-.1	-.4	-.1	.0	.0	.0	.0	.0	.0	1.0	-1.6	1.2	-3.8
63.0	-2.2	.8	.0	-.1	-.4	-.1	.0	.0	.0	.0	.0	.0	1.0	-1.2	1.4	-3.6
64.0	-1.9	.9	.0	-.1	-.4	-.1	.0	.0	.0	.0	.0	.0	1.0	-.8	1.5	-3.4
65.0	-1.5	.8	.0	-.1	-.4	-.1	.0	.0	.0	.0	.0	.0	1.1	-.4	1.5	-3.0
66.0	-1.2	.9	.0	-.1	-.4	-.1	.0	.0	.0	.0	.0	.0	1.1	-.1	1.5	-2.6
67.0	-.8	.8	.0	-.1	-.4	-.1	.0	.0	.0	.0	.0	.0	1.0	.2	1.4	-2.3
68.0	-.5	1.2	.0	-.1	-.4	-.1	.0	.0	.0	.0	.0	.0	1.4	.9	1.4	-1.9
69.0	-.1	1.4	.0	-.2	-.5	-.2	-.1	.0	-.1	.0	.0	.0	1.6	1.5	1.6	-1.7
70.0	.7	.4	.0	-.2	-.8	-.2	-.6	.0	.0	.0	.0	.0	.8	1.5	2.2	-1.5
71.0	.7	.3	.0	.0	-.1	.0	-.4	.0	.0	.0	.0	.0	.6	1.3	1.6	-.8
72.0	.9	.8	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	1.1	1.5	.6	-.1
73.0	.9	1.2	.0	-.1	-.3	-.1	.2	.0	.0	.0	.0	.0	1.5	2.0	.8	-.3
74.0	.8	1.3	.0	-.1	-.5	-.1	.1	.0	.0	.0	.0	.0	1.6	2.4	1.2	-.4
75.0	1.2	1.3	.0	-.1	-.5	-.1	.0	.0	.0	.0	.0	.0	1.5	2.7	1.6	-.4
76.0	1.5	1.3	.0	-.1	-.5	-.1	-.1	.0	.0	.0	.0	.0	1.5	3.0	1.6	-.1
77.0	1.8	1.2	.0	-.1	-.5	-.1	-.2	.0	.0	.0	.0	.0	1.5	3.2	1.6	.2
78.0	2.0	1.1	.0	-.1	-.5	-.1	-.2	.0	.0	.0	.0	.0	1.3	3.4	1.6	.4
79.0	2.2	.8	.0	-.1	-.4	.0	-.2	.0	.0	.0	.0	.0	1.2	3.4	1.6	.6
80.0	2.2	.9	.0	.0	-.3	.0	-.2	.0	.0	.0	.0	.0	1.3	3.4	1.4	.8
81.0	2.0	1.0	.0	.0	-.2	.0	-.2	.0	.0	.0	.0	.0	1.4	3.5	1.2	.8
82.0	2.0	1.1	.0	.0	-.3	.0	-.2	.0	.0	.0	.0	.0	1.6	3.5	1.3	.7
83.0	1.9	1.3	.0	.0	-.4	.0	-.2	.0	.0	.0	.0	.0	1.7	3.7	1.4	.5
84.0	2.0	1.3	.0	-.1	-.5	.0	-.2	.0	.0	.0	.0	.0	1.8	3.7	1.6	.4
85.0	2.0	1.2	.0	-.1	-.5	.0	-.3	.0	.0	.0	.0	.0	1.8	3.8	1.7	.3
86.0	2.0	1.2	.0	-.1	-.5	.0	-.3	.0	.0	.0	.0	.0	1.8	3.8	1.8	.2
87.0	2.0	1.3	.0	-.1	-.5	.0	-.3	.0	.0	.0	.0	.0	1.9	3.9	1.8	.2
88.0	2.0	1.3	.0	-.1	-.5	.0	-.3	.0	.0	.0	.0	.0	1.9	3.9	1.8	.2
89.0	2.1	1.2	.0	-.1	-.6	.0	-.3	.0	.0	.0	.0	.0	1.9	4.0	1.9	.2
90.0	2.2	1.2	.0	.0	-.5	.0	-.3	.0	.0	.0	.0	.0	1.8	4.0	1.9	.3
91.0	2.2	1.2	.0	.0	-.5	.0	-.3	.0	.0	.0	.0	.0	1.8	4.0	1.8	.3
92.0	2.2	1.1	.0	.0	-.5	.0	-.3	.0	.0	.0	.0	.0	1.8	4.0	1.8	.4
93.0	2.2	1.1	.0	-.1	-.5	.0	-.3	.0	.0	.0	.0	.0	1.8	4.0	1.7	.4
94.0	2.2	1.1	.0	-.1	-.5	.0	-.2	.0	.0	.0	.0	.0	1.8	4.0	1.7	.5
95.0	2.2	1.1	.0	-.1	-.5	.0	-.3	.0	.0	.0	.0	.0	1.8	4.0	1.7	.5
96.0	2.2	1.1	.0	-.1	-.4	.0	-.3	.0	.0	.0	.0	.0	1.8	4.0	1.7	.5
97.0	2.2	1.1	.0	-.1	-.4	.0	-.2	.0	.0	.0	.0	.0	1.8	4.0	1.7	.5
98.0	2.2	1.1	.0	-.1	-.4	.0	-.2	.0	.0	.0	.0	.0	1.8	4.0	1.7	.6
99.0	2.3	1.1	.0	-.1	-.4	.0	-.3	.0	.0	.0	.0	.0	1.7	4.0	1.7	.6

PROPULSION

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	2.3	-.8	.0	.1	-.1	-.3	.3	.0	.1	.0	.0	.0	1.7	4.0	1.7	.6
101.0	2.3	-.8	.0	.1	-.1	-.2	.3	.0	.1	.0	.0	.0	1.7	4.0	1.6	.6
102.0	2.2	-.7	.0	.1	-.1	-.2	.3	.0	.1	.0	.0	.0	1.7	3.9	1.6	.7
103.0	2.2	-.7	.0	.1	-.1	-.2	.3	.0	.1	.0	-.1	.0	1.7	3.9	1.6	.7
104.0	2.2	-.7	.0	.1	-.1	-.2	.3	.0	.1	.0	-.1	.0	1.7	3.9	1.5	.6
105.0	2.2	-.6	.0	.1	-.1	-.3	.3	.0	.1	.0	-.1	.0	1.7	3.8	1.5	.6
106.0	2.2	-.6	.0	.1	-.1	-.3	.3	.0	.1	.0	-.1	.0	1.6	3.8	1.5	.6
107.0	2.2	-.7	.0	.1	-.1	-.3	.3	.0	.1	.0	-.1	.0	1.6	3.8	1.5	.6
108.0	2.2	-.7	.0	.1	-.1	-.3	.3	.0	.1	.0	-.1	.0	1.6	3.8	1.6	.6
109.0	2.2	-.7	.1	.1	-.1	-.3	.3	.0	.1	.0	-.1	.0	1.8	4.0	1.5	.6
110.0	2.3	-.9	.0	.2	-.1	-.4	.2	.0	.1	.0	-.2	.0	1.8	4.2	1.6	.8
111.0	2.5	-1.3	.0	.3	.0	-.5	.1	.0	.1	.0	-.2	.0	1.6	4.4	2.0	.8
112.0	3.2	-1.7	.1	.3	.0	-.5	.1	.0	.1	.0	-.3	.0	1.5	4.7	2.3	.9
113.0	3.8	-1.9	.2	.3	.0	-.5	.1	.0	.1	.0	-.3	.0	1.5	5.0	2.4	1.1
114.0	3.8	-1.7	.3	.3	.0	-.5	.1	.0	.1	.0	-.4	.0	1.4	5.2	2.3	1.5
115.0	4.1	-1.5	.3	.3	.0	-.5	.1	.0	.1	.0	-.5	.0	1.3	5.3	2.1	2.0
116.0	4.2	-1.2	.4	.3	.0	-.4	.1	.0	.1	.0	-.6	.0	1.3	5.5	1.9	2.3
117.0	4.4	-.9	.5	.3	.0	-.4	.1	.0	.1	.0	-.6	.0	1.3	5.5	1.8	2.4
118.0	4.5	-.5	.5	.3	.0	-.4	.1	.0	.1	.0	-.7	.0	1.3	5.4	1.6	2.4
119.0	3.9	-.2	.4	.3	.0	-.4	.2	.0	.1	.0	-.7	.0	1.4	5.2	1.5	2.3
120.0	3.6	.0	.3	.3	.0	-.4	.2	.0	.1	.0	-.7	.0	1.4	5.0	1.6	2.0
121.0	3.3	.0	.3	.3	.0	-.4	.2	.0	.1	.0	-.8	.0	1.5	4.8	1.6	1.7
122.0	3.2	.0	.1	.4	.0	-.5	.2	.0	.1	.0	-.8	.0	1.6	4.8	1.6	1.5
123.0	2.9	.0	.1	.4	.0	-.5	.2	.0	.1	.0	-.8	.0	1.6	4.6	1.6	1.3
124.0	2.7	.0	.1	.4	.0	-.5	.2	.0	.1	.0	-.8	.0	1.6	4.3	1.6	1.0
125.0	2.4	.1	.1	.4	.0	-.5	.2	.0	.1	.0	-.8	.0	1.6	4.0	1.6	.8
126.0	2.2	.1	.1	.4	.0	-.5	.2	.0	.1	.0	-.8	.0	1.6	3.7	1.6	.5
127.0	1.9	.1	.1	.4	.0	-.5	.2	.0	.1	.0	-.8	.0	2.1	4.0	1.5	.3
128.0	1.6	.1	.1	.4	.0	-.5	.2	.0	.1	.0	-.8	.0	4.3	5.9	1.5	.1
129.0	1.4	.1	.1	.4	.0	-.5	.2	.0	.1	.0	-.8	.0	5.9	7.2	1.5	-.2
130.0	1.7	-.4	-.5	.4	.0	-.5	.3	.0	.1	.0	-.8	.0	5.6	7.2	1.7	.0
140.0	5.8	-.7	-.2	.2	-.3	-.7	1.1	-.1	.4	.0	1.0	-.1	3.3	9.1	3.4	2.4
150.0	4.3	-.6	-.2	.2	-.3	-.7	.9	.0	.3	.0	.9	-.1	3.2	7.2	3.1	.9
160.0	2.3	-.5	-.2	.2	-.3	-.7	.9	.0	.3	.0	.8	.0	2.9	5.2	2.9	-.6
170.0	.3	-.5	-.2	.2	-.3	-.6	.8	.0	.3	.0	.8	.0	2.7	3.5	2.7	-1.9
180.0	-.9	-.6	-.1	.2	-.3	-.6	.7	.0	.3	.0	.7	.0	2.5	1.9	2.5	-3.1
190.0	-1.7	-.5	-.1	.2	-.3	-.6	.7	.0	.3	.0	.7	.0	2.3	.6	2.3	-4.0
200.0	-2.6	-.5	-.1	.2	-.3	-.6	.6	.0	.3	.0	.6	.0	2.1	-.5	2.2	-4.8
210.0	-3.4	-.5	-.1	.2	-.3	-.6	.6	.0	.3	.0	.6	.0	1.9	-1.5	2.0	-5.4
220.0	-4.0	-.4	-.1	.1	-.3	-.6	.5	.0	.3	.0	.5	.0	1.7	-2.2	1.9	-5.8
230.0	-4.4	-.4	-.1	.1	-.3	-.6	.5	.0	.3	.0	.5	.0	1.6	-2.8	1.7	-6.2
240.0	-4.9	-.4	-.1	.1	-.3	-.6	.4	.0	.3	.0	.4	.0	1.5	-3.3	1.6	-6.4
250.0	-5.2	-.3	-.1	.1	-.3	-.5	.4	.0	.3	.0	.4	.0	1.3	-3.6	1.5	-6.4
260.0	-5.4	-.3	-.1	.1	-.3	-.5	.3	.0	.3	.0	.4	.0	1.2	-3.8	1.4	-6.4
270.0	-5.3	-.2	-.1	.1	-.3	-.5	.3	.0	.2	.0	.3	.0	1.1	-4.0	1.3	-6.3
280.0	-4.9	-.3	.0	.1	-.3	-.5	.3	.0	.3	.0	.3	.0	1.0	-3.9	1.2	-6.1
290.0	-4.7	-.2	.0	.1	-.3	-.5	.2	.0	.3	.0	.3	.0	.9	-3.8	1.0	-5.7
300.0	-4.4	-.2	.0	.1	-.3	-.5	.2	.0	.3	.0	.2	.0	.7	-3.7	.9	-5.4
310.0	-4.1	-.2	.0	.1	-.3	-.5	.2	.0	.3	.0	.2	.0	.6	-3.4	.9	-4.9
320.0	-3.6	-.1	.0	.1	-.3	-.4	.1	.0	.3	.0	.2	.0	.6	-3.1	.8	-4.4

PROPULSION

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	2.3	1.0	.0	.0	-.4	.0	-.3	.0	.0	.0	.0	.0	1.7	4.0	1.7	.6
101.0	2.3	1.0	.0	.0	-.4	.0	-.3	.0	.0	.0	.0	.0	1.7	4.0	1.6	.6
102.0	2.3	1.0	.0	.0	-.4	.0	-.3	.0	.0	.0	.0	.0	1.7	3.9	1.6	.7
103.0	2.2	.9	.0	.0	-.4	.0	-.3	.0	.0	.0	.1	.0	1.7	3.9	1.6	.7
104.0	2.2	.9	.0	.0	-.4	.0	-.3	.0	.0	.0	.1	.0	1.7	3.9	1.5	.6
105.0	2.2	1.0	.0	-.1	-.4	.0	-.3	.0	.0	.0	.1	.0	1.7	3.8	1.5	.6
106.0	2.2	.9	.0	-.1	-.4	.0	-.3	.0	.0	.0	.1	.0	1.6	3.8	1.5	.6
107.0	2.2	.9	.0	-.1	-.4	.0	-.2	.0	.0	.0	.1	.0	1.6	3.8	1.5	.6
108.0	2.2	1.0	.0	-.1	-.4	.0	-.3	.0	.0	.0	.1	.0	1.6	3.8	1.6	.6
109.0	2.2	1.2	.0	-.1	-.4	.0	-.3	.0	.0	.0	.1	.0	1.8	4.0	1.5	.6
110.0	2.3	1.3	.0	-.2	-.5	-.1	-.2	.0	-.1	.0	.1	.0	1.8	4.2	1.6	.8
111.0	2.3	1.1	.0	-.3	-.8	-.2	-.1	.0	-.1	.0	.2	.0	1.6	4.4	2.0	.8
112.0	3.2	1.0	.0	-.3	-.9	-.3	-.1	.0	-.1	.0	.3	.0	1.5	4.7	2.3	.9
113.0	3.5	.9	.2	-.3	-.9	-.3	-.1	.0	-.1	.0	.3	.0	1.5	5.0	2.4	1.1
114.0	3.8	.7	.2	-.3	-.8	-.2	-.1	.0	-.1	.0	.4	.0	1.4	5.2	2.3	1.5
115.0	4.1	.4	.3	-.2	-.8	-.2	-.1	.0	-.1	.0	.5	.0	1.3	5.3	2.1	2.0
116.0	4.2	.1	.4	-.2	-.8	-.2	-.1	.0	-.1	.0	.6	.0	1.3	5.5	1.9	2.3
117.0	4.2	-.2	.5	-.3	-.8	-.2	-.1	.0	-.1	.0	.6	.0	1.3	5.5	1.8	2.4
118.0	4.0	-.3	.4	-.3	-.8	-.2	-.1	.0	-.1	.0	.7	.0	1.3	5.4	1.6	2.4
119.0	3.8	-.3	.4	-.3	-.8	-.2	-.2	.0	-.1	.0	.7	.0	1.4	5.2	1.5	2.3
120.0	3.6	-.3	.3	-.3	-.8	-.2	-.2	.0	-.1	.0	.7	.0	1.4	5.0	1.6	2.0
121.0	3.3	-.3	.2	-.3	-.8	-.2	-.2	.0	-.1	.0	.8	.0	1.5	4.8	1.6	1.7
122.0	3.2	-.4	.1	-.3	-.8	-.2	-.2	.0	-.1	.0	.8	.0	1.6	4.8	1.6	1.5
123.0	2.9	-.5	.1	-.3	-.8	-.2	-.2	.0	-.1	.0	.8	.0	1.6	4.6	1.6	1.3
124.0	2.7	-.5	.1	-.3	-.8	-.2	-.2	.0	-.1	.0	.8	.0	1.6	4.3	1.6	1.0
125.0	2.4	-.5	.1	-.3	-.8	-.2	-.2	.0	-.1	.0	.8	.0	1.6	4.0	1.6	.8
126.0	2.2	-.5	.1	-.3	-.8	-.2	-.2	.0	-.1	.0	.8	.0	1.6	3.7	1.6	.5
127.0	1.9	1.4	.1	-.3	-.8	-.2	-.2	.0	-.1	.0	.8	.0	2.1	4.0	1.5	.3
128.0	1.6	4.0	.1	-.3	-.8	-.2	-.2	.0	-.1	.0	.8	.0	4.3	5.9	1.5	.1
129.0	1.4	5.6	.1	-.3	-.8	-.2	-.2	.0	-.1	.0	.8	.0	5.9	7.2	1.5	-.2
130.0	1.7	5.3	-.5	-.3	-.8	-.2	-.2	.0	-.1	.0	.8	.0	5.6	7.2	1.7	.0
140.0	5.3	.9	-.2	-.1	-.8	-.1	-1.0	.0	-.3	.0	-.9	.0	3.3	9.1	3.4	2.4
150.0	4.3	.8	-.2	-.1	-.7	-.1	-.9	.0	-.3	.0	-.9	.0	3.2	7.2	3.1	.9
160.0	2.3	.7	-.2	-.1	-.7	-.1	-.8	.0	-.3	.0	-.8	.0	2.9	5.2	2.9	-.6
170.0	.9	.6	-.2	-.1	-.7	-.1	-.7	.0	-.3	.0	-.7	.0	2.7	3.5	2.7	-1.9
180.0	-.6	.5	-.1	-.1	-.6	-.1	-.7	.0	-.3	.0	-.7	.0	2.5	1.9	2.5	-3.1
190.0	-1.7	.4	-.1	-.1	-.6	-.1	-.6	.0	-.3	.0	-.6	.0	2.3	.6	2.3	-4.0
200.0	-2.6	.3	-.1	-.1	-.6	-.1	-.6	.0	-.3	.0	-.6	.0	2.1	-.5	2.2	-4.8
210.0	-3.4	.3	-.1	-.1	-.6	-.1	-.5	.0	-.3	.0	-.5	.0	1.9	-1.5	2.0	-5.4
220.0	-4.1	.2	-.1	-.1	-.5	-.1	-.5	.0	-.3	.0	-.5	.0	1.7	-2.2	1.9	-5.8
230.0	-4.4	.2	-.1	-.1	-.5	-.1	-.4	.0	-.3	.0	-.5	.0	1.6	-2.8	1.7	-6.2
240.0	-4.3	.1	-.1	-.1	-.5	-.1	-.4	.0	-.3	.0	-.4	.0	1.5	-3.3	1.6	-6.4
250.0	-4.3	.1	-.1	-.1	-.5	-.1	-.4	.0	-.3	.0	-.4	.0	1.3	-3.6	1.5	-6.4
260.0	-4.2	.0	-.1	-.1	-.4	-.1	-.3	.0	-.3	.0	-.3	.0	1.2	-3.8	1.4	-6.4
270.0	-4.0	.0	-.1	-.1	-.4	-.1	-.3	.0	-.3	.0	-.3	.0	1.1	-4.0	1.3	-6.3
280.0	-4.0	-.1	-.1	-.1	-.4	-.1	-.3	.0	-.3	.0	-.3	.0	1.0	-3.9	1.2	-6.1
290.0	-4.7	-.1	-.1	-.1	-.3	-.1	-.2	.0	-.3	.0	-.2	.0	.9	-3.8	1.0	-5.7
300.0	-4.4	-.2	-.1	-.1	-.3	-.1	-.2	.0	-.3	.0	-.2	.0	.7	-3.7	.9	-5.4
310.0	-4.1	-.2	-.1	-.1	-.3	-.1	-.2	.0	-.3	.0	-.2	.0	.6	-3.4	.9	-4.9
320.0	-3.6	-.2	.0	-.1	-.2	-.1	-.1	.0	-.3	.1	-.1	.0	.6	-3.1	.8	-4.4

PROPULSION

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-3.2	-.1	.0	.1	-.3	-.4	.1	.0	.2	.0	.1	.0	.5	-2.7	.7	-3.9
340.0	-2.6	-.1	.0	.1	-.3	-.4	.1	.0	.2	-.1	.1	.0	.4	-2.2	.7	-3.3
350.0	-2.0	.0	.0	.0	-.3	-.4	.0	.0	.2	.0	.1	.0	.3	-1.7	.7	-2.7
360.0	-1.4	.0	.0	.0	-.3	-.4	.0	.0	.2	-.1	.0	.0	.3	-1.1	.7	-2.1
370.0	-.8	.0	.0	.0	-.3	-.3	.0	.0	.2	.0	.0	.0	.3	-.5	.7	-1.5
380.0	-.3	.1	.0	.0	-.3	-.3	-.1	.0	.2	.0	.0	.0	.4	.2	.7	-.8
390.0	.2	.1	.1	.0	-.3	-.3	-.1	.0	.2	.0	-.1	.0	.4	1.0	.8	-.2
400.0	1.2	.2	.4	.0	-.3	-.3	-.1	.0	.2	.0	-.1	.0	.7	1.9	.9	.4
410.0	1.9	.2	1.1	.0	-.3	-.2	-.1	.0	.2	.0	-.1	.0	1.2	3.1	.9	1.0
420.0	2.6	.2	1.1	.0	-.3	-.2	-.2	.0	.1	-.1	-.2	.0	1.3	3.9	1.1	1.5
430.0	3.1	.3	.9	.0	-.3	-.2	-.2	.0	.1	.0	-.2	.0	1.2	4.3	1.1	2.0
440.0	3.6	.4	.4	.0	-.3	-.2	-.2	.0	.1	.0	-.2	.0	1.0	4.6	1.2	2.4
450.0	4.0	.5	-.3	-.1	-.3	-.1	-.3	.0	.1	.0	-.2	.0	1.0	5.0	1.4	2.6
460.0	4.1	.7	-.9	-.1	-.3	-.1	-.3	.0	.0	.0	-.3	.0	1.2	5.3	1.8	2.3
470.0	4.2	.8	-1.5	-.1	-.3	-.1	-.3	.0	.0	.0	-.3	.0	1.4	5.4	1.9	2.1

PROPULSION

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-3.2	-.3	.0	-.1	-.2	-.1	-.1	.0	-.2	.1	-.1	.0	.5	-2.7	.7	-3.9
340.0	-2.6	-.3	.0	-.1	-.2	-.1	-.1	.0	-.2	.1	-.1	.0	.4	-2.2	.7	-3.3
350.0	-2.0	-.4	.0	.0	-.1	.0	.0	.0	-.2	.1	-.1	.0	.3	-1.7	.7	-2.7
360.0	-1.4	-.4	.0	.0	-.1	.0	.0	.0	-.2	.1	.0	.0	.3	-1.1	.7	-2.1
370.0	-.8	-.4	.0	.0	-.1	.0	.0	.0	-.2	.1	.0	.0	.3	-.5	.7	-1.5
380.0	-.1	-.5	.0	.0	.0	.0	.1	.0	-.2	.1	.0	.0	.4	.2	.7	-.8
390.0	.6	-.5	.0	.0	.0	.0	.1	.0	-.2	.0	.1	.0	.4	1.0	.8	-.2
400.0	1.2	-.6	.0	.0	.0	.0	.1	.0	-.2	.0	.1	.0	.7	1.9	.9	.4
410.0	1.9	-.6	.0	.0	.1	.0	.1	.0	-.2	.0	.1	.0	1.2	3.1	.9	1.0
420.0	2.6	-.7	.0	.0	.1	.0	.2	.0	-.2	.0	.2	.0	1.3	3.9	1.1	1.5
430.0	3.1	-.7	.1	.0	.1	.0	.2	.0	-.1	.0	.2	.0	1.2	4.3	1.1	2.0
440.0	3.6	-.8	.1	.0	.2	.0	.2	.0	-.1	.0	.2	.0	1.0	4.6	1.2	2.4
450.0	4.1	-.9	.1	.0	.2	.0	.3	.0	-.1	.0	.2	.0	1.0	5.0	1.4	2.6
460.0	4.1	-1.1	.1	.1	.3	.0	.3	.0	.0	.0	.3	.0	1.2	5.3	1.8	2.3
470.0	4.0	.3	.2	.1	.3	.0	.3	.0	.0	.0	.3	.0	1.4	5.4	1.9	2.1

AERO/ENVIRONMENT

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	-3.7	.0	.0	.0	.0	.0	.0	.0	.0	.9	-2.9	.9	-4.6
2.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	3.4	.3	2.7
3.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.6	5.4	.6	4.2
4.0	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.8	6.2	.7	4.7
5.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.8	6.6	.8	5.0
6.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.9	6.8	.8	5.1
7.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	6.8	.8	5.2
8.0	6.5	.0	-.1	.0	.0	.0	.0	.0	.0	.7	7.2	.8	5.7
9.0	7.5	.0	-.1	.0	.0	.0	.0	.0	.0	.7	8.2	.9	6.6
10.0	8.3	.0	-.1	.0	.0	.0	.0	.0	.0	.9	9.0	.9	7.4
11.0	8.6	.0	-.1	.0	.0	.0	.0	.0	.0	.8	9.4	.9	7.7
12.0	8.5	.0	-.1	.0	.0	.0	.0	.0	.0	.9	9.4	.8	7.7
13.0	8.3	.0	-.1	.0	.0	.0	.0	.0	.0	.9	9.2	.8	7.5
14.0	7.9	.0	-.2	.0	.0	.0	.0	.0	.0	.9	8.8	.7	7.2
15.0	7.5	.0	-.2	.0	.0	.0	.0	.0	.0	.9	8.4	.6	6.9
16.0	7.1	.0	-.2	.0	.0	.0	.0	.0	.0	.8	7.9	.6	6.5
17.0	6.3	.0	-.2	.0	.0	.0	.0	.0	.0	1.1	7.4	.6	5.7
18.0	4.8	.0	-.3	.0	.0	.0	.0	.0	.0	1.3	6.1	.4	4.4
19.0	3.6	.0	-.3	.0	.0	.0	.0	.0	.0	1.0	4.5	.5	3.1
20.0	2.9	.0	-.4	.0	.0	.0	.0	.0	.0	.9	3.7	.6	2.3
21.0	2.3	.0	-.4	.0	.0	.0	.0	.0	.0	.8	3.1	.6	1.7
22.0	1.7	.0	-.4	.0	.0	.0	.0	.0	.0	.8	2.4	1.3	.4
23.0	1.3	.0	-.5	.0	.0	.0	.0	.0	.0	.8	1.8	1.4	-.4
24.0	.4	.0	-.5	.0	.0	.0	.0	.0	.0	.9	1.3	1.3	-.9
25.0	-.3	.0	-.5	.0	.0	.0	.0	.0	.0	.9	.6	1.1	-1.4
26.0	-.9	.0	-.6	.0	.0	.0	.0	.0	.0	.9	.0	1.1	-2.0
27.0	-1.6	.0	-.6	.0	.0	.0	.0	.0	.0	1.0	-.6	.8	-2.4
28.0	-2.1	.0	-.6	.0	.1	.0	.0	.0	.0	.9	-1.2	.7	-2.7
29.0	-2.3	.0	-.6	.0	.1	.0	.0	.0	.0	.8	-1.4	.7	-3.0
30.0	-2.3	.0	-.6	.0	.1	.1	.0	.0	.0	.9	-1.4	.8	-3.1
31.0	-2.3	.0	-.6	.0	.1	.1	.0	.0	.0	.9	-1.4	.9	-3.1
32.0	-2.3	.0	-.6	.0	.2	.1	.0	.0	.0	.8	-1.4	.9	-3.1
33.0	-2.3	.0	-.6	-.1	.2	.1	.0	.0	.0	.8	-1.5	.9	-3.2
34.0	-2.4	.0	-.6	-.1	.2	.1	.0	.0	.0	.9	-1.5	1.3	-3.7
35.0	-2.5	.0	-.6	-.1	.2	.1	.0	.0	.0	.9	-1.6	1.8	-4.3
36.0	-2.6	.0	-.6	-.1	.2	.1	.0	.0	.0	.9	-1.7	2.3	-4.8
37.0	-2.6	.0	-.6	-.1	.2	.1	.0	.0	.0	.8	-1.7	2.5	-5.1
38.0	-2.7	.0	-.6	-.1	.2	.1	.0	.0	.0	.8	-1.9	2.3	-5.0
39.0	-2.6	.0	-.5	-.1	.2	.1	.0	.0	.0	.7	-2.1	1.9	-4.7
40.0	-2.9	.0	-.5	.0	.1	.1	.0	.0	.0	.7	-2.3	1.5	-4.5
41.0	-3.0	.0	-.5	.0	.1	.1	.0	.0	.0	.6	-2.3	1.3	-4.2
42.0	-3.1	.0	-.5	.0	.1	.1	.0	.0	.0	.6	-2.4	1.0	-4.0
43.0	-3.1	.0	-.5	.0	.1	.1	.0	.0	.0	.6	-2.4	.7	-3.8
44.0	-3.2	.0	-.5	.0	.1	.1	.0	.0	.0	.7	-2.5	.6	-3.8
45.0	-3.3	.0	-.5	.0	.1	.1	.0	.0	.0	.7	-2.6	.6	-3.9
46.0	-3.3	-.1	-.5	.0	.1	.1	.0	.0	.0	.7	-2.6	.6	-3.9
47.0	-3.2	-.1	-.5	.0	.1	.1	.0	-.1	.0	.7	-2.5	.7	-3.9
48.0	-3.2	-.1	-.5	.0	.1	.1	.0	-.1	.0	.7	-2.5	.8	-4.0
49.0	-3.2	-.1	-.5	-.1	.1	.1	.0	-.1	.0	.7	-2.5	.7	-3.9

AERO/ENVIRONMENT

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	-3.7	.0	.0	.0	.0	.0	.0	.0	.0	.9	-2.9	.9	-4.6
2.0	3.[illegible]	.0	.0	.0	.0	.0	.0	.0	.0	.4	3.4	.3	2.7
3.0	4.[illegible]	.0	.0	.0	.0	.0	.0	.0	.0	.6	5.4	.6	4.2
4.0	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.8	6.2	.7	4.7
5.0	5.[illegible]	.0	.0	.0	.0	.0	.0	.0	.0	.8	6.6	.8	5.0
6.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.9	6.8	.8	5.1
7.0	6.[illegible]	.0	.0	.0	.0	.0	.0	.0	.0	.9	6.8	.8	5.2
8.0	6.[illegible]	.0	.1	.0	.0	.0	.0	.0	.0	.7	7.2	.8	5.7
9.0	7.[illegible]	.0	.1	.0	.0	.0	.0	.0	.0	.7	8.2	.9	6.6
10.0	8.3	.0	.1	.0	.0	.0	.0	.0	.0	.8	9.0	.9	7.4
11.0	8.6	.0	.1	.0	.0	.0	.0	.0	.0	.8	9.4	.9	7.7
12.0	8.[illegible]	.0	.1	.0	.0	.0	.0	.0	.0	.9	9.4	.8	7.7
13.0	8.[illegible]	.0	.1	.0	.0	.0	.0	.0	.0	.9	9.2	.8	7.5
14.0	7.9	.0	.2	.0	.0	.0	.0	.0	.0	.9	8.8	.7	7.2
15.0	7.5	.0	.2	.0	.0	.0	.0	.0	.0	.9	8.4	.6	6.9
16.0	7.1	.0	.2	.0	.0	.0	.0	.0	.0	.8	7.9	.6	6.5
17.0	6.3	.0	.2	.0	.0	.0	.0	.0	.0	1.1	7.4	.6	5.7
18.0	4.8	.0	.3	.0	.0	.0	.0	.0	.0	1.3	6.1	.4	4.4
19.0	3.[illegible]	.0	.3	.0	.0	.0	.0	.0	.0	1.0	4.5	.5	3.1
20.0	2.[illegible]	.0	.4	.0	.0	.0	.0	.0	.0	.9	3.7	.6	2.3
21.0	2.3	.0	.4	.0	.0	.0	.0	.0	.0	.8	3.1	.6	1.7
22.0	1.7	.0	.5	.0	.0	.0	.0	.0	.0	.8	2.4	1.3	.4
23.0	1.[illegible]	.0	.5	.0	.0	.0	.0	.0	.0	.8	1.8	1.4	-.4
24.0	.4	.0	.5	.0	.0	.0	.0	.0	.0	.9	1.3	1.3	-.9
25.0	-.3	.0	.6	.0	.0	.0	.0	.0	.0	.9	.6	1.1	-1.4
26.0	-.9	.0	.6	.0	.0	.0	.0	.0	.0	.9	.0	1.1	-2.0
27.0	-1.[illegible]	.0	.6	.0	.0	.0	.0	.0	.0	1.0	-.6	.8	-2.4
28.0	-2.1	.0	.7	.0	-.1	.0	.0	.0	.0	.9	-1.2	.7	-2.7
29.0	-2.[illegible]	.0	.7	.0	-.1	.0	.0	.0	.0	.8	-1.4	.7	-3.0
30.0	-2.3	.0	.7	.0	-.1	-.1	.0	.0	.0	.9	-1.4	.8	-3.1
31.0	-2.3	.0	.6	.0	-.1	-.1	.0	.0	.0	.9	-1.4	.9	-3.1
32.0	-2.3	.0	.6	.0	-.2	-.1	.0	.0	.0	.8	-1.4	.9	-3.1
33.0	-2.3	.0	.6	.1	-.2	-.1	.0	.0	.0	.8	-1.5	.9	-3.2
34.0	-2.4	.0	.7	.1	-.2	-.1	.0	.0	.0	.9	-1.5	1.3	-3.7
35.0	-2.5	.0	.7	.1	-.2	-.1	.0	.0	.0	.9	-1.6	1.8	-4.3
36.0	-2.6	.0	.7	.1	-.2	-.1	.0	.0	.0	.9	-1.7	2.3	-4.8
37.0	-2.6	.0	.7	.1	-.2	-.1	.0	.0	.0	.8	-1.7	2.5	-5.1
38.0	-2.7	.0	.6	.1	-.1	-.1	.0	.0	.0	.8	-1.9	2.3	-5.0
39.0	-2.8	.0	.6	.1	-.1	-.1	.0	.0	.0	.7	-2.1	1.9	-4.7
40.0	-2.9	.0	.6	.0	-.1	-.1	.0	.0	.0	.7	-2.3	1.5	-4.5
41.0	-3.[illegible]	.0	.5	.0	-.1	-.1	.0	.0	.0	.6	-2.3	1.3	-4.2
42.0	-3.[illegible]	.0	.5	.0	-.1	-.1	.0	.0	.0	.6	-2.4	1.[illegible]	-4.[illegible]
43.0	-3.1	.0	.5	.0	-.1	-.1	.0	.0	.0	.6	-2.4	.7	-3.8
44.0	-3.2	.0	.6	.0	-.1	-.1	.0	.0	.0	.7	-2.5	.6	-3.8
45.0	-3.3	.0	.6	.0	-.1	-.1	.0	.0	.0	.7	-2.6	.6	-3.9
46.0	-3.3	.1	.6	.0	-.1	-.1	.0	.0	.0	.7	-2.6	.6	-3.9
47.0	-3.[illegible]	.1	.6	.0	-.1	-.1	.0	.1	.0	.7	-2.5	.7	-3.9
48.0	-3.2	.1	.6	.0	-.1	-.1	.0	.1	.0	.7	-2.5	.8	-4.0
49.0	-3.[illegible]	.1	.6	.1	-.1	-.1	.0	.1	.0	.7	-2.5	.7	-3.9

AERO/ENVIRONMENT

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	-3.2	.0	-.5	-.1	.1	.1	.0	-.1	.0	.7	-2.5	.7	-3.9
51.0	-3.3	-.1	-.5	.0	.1	.1	.0	.0	.0	.7	-2.6	.6	-3.9
52.0	-3.3	-.1	-.5	.0	.1	.1	.0	.0	.0	.7	-2.6	.6	-3.9
53.0	-3.3	-.1	-.5	.0	.1	.1	.0	.0	.0	.7	-2.6	.7	-3.9
54.0	-3.2	-.1	-.5	.0	.2	.1	.0	.0	.0	.7	-2.5	.7	-3.9
55.0	-3.2	.0	-.5	.0	.2	.1	.0	.0	.0	.7	-2.6	.7	-3.9
56.0	-3.3	.0	-.5	.0	.2	.1	.0	.0	.0	.7	-2.6	.6	-3.9
57.0	-3.3	-.1	-.5	.0	.2	.1	.0	.0	.0	.7	-2.6	.6	-3.9
58.0	-3.3	-.1	-.5	.0	.2	.1	.0	.0	.0	.7	-2.6	.6	-3.9
59.0	-3.2	-.1	-.5	.0	.2	.1	.0	.0	.0	.7	-2.5	.7	-3.9
60.0	-3.1	-.1	-.5	.0	.1	.1	.0	.0	.0	.8	-2.3	.8	-3.9
61.0	-2.9	-.2	-.5	.0	.1	.1	.0	-.1	.0	.9	-2.0	.9	-3.8
62.0	-2.6	-.2	-.5	.0	.1	.1	.0	-.1	.0	1.0	-1.6	1.2	-3.8
63.0	-2.2	-.2	-.5	.0	.1	.1	.0	-.1	.0	1.0	-1.2	1.4	-3.6
64.0	-1.9	-.2	-.5	.0	.1	.0	.0	-.1	.0	1.0	-.8	1.5	-3.4
65.0	-1.5	-.2	-.5	.0	.1	.0	.0	-.1	.0	1.1	-.4	1.5	-3.0
66.0	-1.2	-.2	-.5	.0	.1	.0	.0	-.1	.0	1.1	-.1	1.5	-2.6
67.0	-.8	-.2	-.5	.0	.1	.0	.0	-.1	.0	1.0	.2	1.4	-2.3
68.0	-.5	-.2	-.5	.0	.1	.0	.0	-.1	.0	1.4	.9	1.4	-1.9
69.0	-.1	-.3	-.6	-.1	.0	.0	.0	-.1	-.1	1.6	1.5	1.6	-1.7
70.0	.7	-.3	-.6	-.1	.0	.0	.0	-.1	-.6	.8	1.5	2.2	-1.5
71.0	.7	-.1	-.5	.0	.1	.0	.0	-.1	-.3	.6	1.3	1.6	-.8
72.0	.5	.0	-.5	.0	.0	.0	.0	.0	.2	1.1	1.5	.6	-.1
73.0	.5	-.2	-.5	-.1	.0	-.1	.0	-.1	.3	1.5	2.0	.8	-.3
74.0	.8	-.2	-.5	-.1	-.1	-.1	.0	-.1	.2	1.6	2.4	1.2	-.4
75.0	1.2	-.2	-.5	-.1	-.1	-.1	.0	-.1	.1	1.5	2.7	1.6	-.4
76.0	1.5	-.3	-.5	.0	-.1	-.1	.0	-.1	.0	1.5	3.0	1.6	-.1
77.0	1.8	-.3	-.5	.0	-.2	-.1	.0	-.1	-.1	1.5	3.2	1.6	.2
78.0	2.0	-.3	-.5	.0	-.2	-.1	.0	-.1	.0	1.7	3.4	1.6	.4
79.0	2.2	-.2	-.5	-.1	-.3	-.2	.0	.0	.0	1.7	3.4	1.6	.6
80.0	2.2	-.1	-.5	-.1	-.3	-.2	.0	.0	.0	1.7	3.4	1.4	.8
81.0	2.3	-.1	-.4	-.1	-.4	-.2	.0	.0	.0	1.4	3.5	1.2	.8
82.0	2.3	-.1	-.4	-.1	-.4	-.2	.0	.0	.0	1.6	3.5	1.3	.7
83.0	1.9	-.2	-.4	-.1	-.5	-.3	.0	.0	.0	1.7	3.7	1.4	.5
84.0	2.0	-.2	-.4	-.1	-.5	-.3	.0	.0	.0	1.8	3.7	1.6	.4
85.0	2.0	-.2	-.4	-.1	-.6	-.3	.0	.0	.0	1.8	3.8	1.7	.3
86.0	2.1	-.2	-.4	-.1	-.6	-.3	.0	.0	.0	1.8	3.8	1.8	.2
87.0	2.0	-.2	-.4	-.2	-.6	-.3	.0	.0	.0	1.9	3.9	1.8	.2
88.0	2.1	-.2	-.4	-.2	-.6	-.3	.0	.0	.0	1.9	3.9	1.8	.2
89.0	2.1	-.3	-.4	-.2	-.6	-.3	.0	.0	.0	1.9	4.0	1.9	.2
90.0	2.2	-.2	-.5	-.2	-.6	-.3	.0	.0	.0	1.8	4.0	1.9	.3
91.0	2.2	-.2	-.5	-.2	-.6	-.3	.0	.0	.0	1.8	4.0	1.8	.3
92.0	2.2	-.2	-.5	-.2	-.6	-.3	.0	.0	.0	1.8	4.0	1.8	.4
93.0	2.2	-.2	-.5	-.3	-.6	-.3	.0	.0	.0	1.8	4.0	1.7	.4
94.0	2.2	-.2	-.5	-.3	-.5	-.3	.0	.0	.0	1.8	4.0	1.7	.5
95.0	2.2	-.2	-.5	-.3	-.5	-.3	.0	.0	.0	1.8	4.0	1.7	.5
96.0	2.2	-.2	-.5	-.3	-.5	-.3	.0	.0	.0	1.8	4.0	1.7	.5
97.0	2.2	-.2	-.5	-.3	-.5	-.3	.0	.0	.0	1.8	4.0	1.7	.5
98.0	2.2	-.2	-.6	-.3	-.5	-.3	.0	.0	.0	1.8	4.0	1.7	.6
99.0	2.3	-.3	-.6	-.3	-.5	-.3	.0	.0	.0	1.7	4.0	1.7	.6

AERO/ENVIRONMENT

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	-3.2	.0	.6	.1	-.1	-.1	.0	.1	.0	.7	-2.5	.7	-3.9
51.0	-3.3	.0	.6	.0	-.1	-.1	.0	.0	.0	.7	-2.6	.6	-3.9
52.0	-3.3	.1	.6	.0	-.1	-.1	.0	.0	.0	.7	-2.6	.6	-3.9
53.0	-3.3	.1	.6	.0	-.1	-.1	.0	.0	.0	.7	-2.6	.7	-3.9
54.0	-3.2	.0	.6	.0	-.1	-.1	.0	.0	.0	.7	-2.5	.7	-3.9
55.0	-3.2	.0	.6	.0	-.1	-.1	.0	.0	.0	.7	-2.6	.7	-3.9
56.0	-3.3	.0	.6	.0	-.1	-.1	.0	.0	.0	.7	-2.6	.6	-3.9
57.0	-3.3	.1	.6	.0	-.1	-.1	.0	.0	.0	.7	-2.6	.6	-3.9
58.0	-3.3	.1	.6	.0	-.1	-.1	.0	.0	.0	.7	-2.6	.6	-3.9
59.0	-3.2	.1	.6	.0	-.1	-.1	.0	.0	.0	.7	-2.5	.7	-3.9
60.0	-3.1	.2	.6	.0	-.1	-.1	.0	.1	.0	.8	-2.3	.8	-3.9
61.0	-2.9	.2	.6	.0	-.1	-.1	.0	.1	.0	.9	-2.0	.9	-3.8
62.0	-2.6	.2	.5	.0	-.1	-.1	.0	.1	.0	1.0	-1.6	1.2	-3.8
63.0	-2.3	.2	.5	.0	-.1	.0	.0	.1	.0	1.0	-1.2	1.4	-3.6
64.0	-1.9	.2	.5	.0	-.1	.0	.0	.1	.0	1.0	-.8	1.5	-3.4
65.0	-1.5	.2	.5	.0	-.1	.0	.0	.1	.0	1.1	-.4	1.5	-3.0
66.0	-1.2	.2	.5	.0	-.1	.0	.0	.1	.0	1.1	-.1	1.5	-2.6
67.0	-.8	.2	.5	.0	-.1	.0	.0	.1	.0	1.0	.2	1.4	-2.3
68.0	-.5	.2	.5	.0	-.1	.0	.0	.1	.0	1.4	.9	1.4	-1.9
69.0	-.1	.4	.6	.1	.0	.0	.0	.1	-.1	1.6	1.5	1.6	-1.7
70.0	.7	.2	.5	.1	.0	.0	.0	.1	-.6	.8	1.5	2.2	-1.5
71.0	.7	.0	.5	.0	-.1	.0	.0	.1	-.3	.6	1.3	1.6	-.8
72.0	.9	.1	.5	.0	.0	.0	.0	.0	.2	1.1	1.5	.6	-.1
73.0	.8	.2	.6	.1	.1	.1	.0	.0	.3	1.5	2.0	.8	-.3
74.0	.8	.2	.6	.1	.1	.1	.0	.0	.2	1.6	2.4	1.2	-.4
75.0	1.2	.3	.6	.1	.1	.1	.0	.1	.1	1.5	2.7	1.6	-.4
76.0	1.5	.2	.5	.1	.1	.1	.0	.0	.0	1.5	3.0	1.6	-.1
77.0	1.8	.3	.5	.0	.1	.1	.0	.0	.0	1.5	3.2	1.6	.2
78.0	2.0	.2	.5	.0	.2	.1	.0	.0	.0	1.3	3.4	1.6	.4
79.0	2.2	.1	.5	.1	.2	.2	.0	.0	.0	1.2	3.4	1.6	.6
80.0	2.2	.1	.5	.1	.3	.2	.0	.0	.0	1.2	3.4	1.4	.8
81.0	2.3	.1	.5	.1	.3	.2	.0	.0	.0	1.4	3.5	1.2	.8
82.0	2.3	.1	.5	.1	.4	.2	.0	.0	.0	1.6	3.5	1.3	.7
83.0	1.9	.2	.4	.1	.4	.2	.0	.0	.0	1.7	3.7	1.4	.5
84.0	2.3	.2	.4	.1	.5	.3	.0	.0	.0	1.8	3.7	1.6	.4
85.0	2.3	.2	.4	.1	.5	.3	.0	.0	.0	1.8	3.8	1.7	.3
86.0	2.0	.2	.4	.1	.5	.2	.0	.0	.0	1.8	3.8	1.8	.2
87.0	2.0	.2	.5	.2	.5	.2	.0	.0	.0	1.9	3.9	1.8	.2
88.0	2.0	.2	.5	.2	.5	.2	.0	.0	.0	1.9	3.9	1.8	.2
89.0	2.1	.2	.5	.2	.5	.3	.0	.0	.0	1.9	4.0	1.9	.2
90.0	2.2	.2	.5	.2	.5	.2	.0	.0	.0	1.8	4.0	1.9	.3
91.0	2.2	.2	.5	.2	.5	.2	.0	.0	.0	1.8	4.0	1.8	.3
92.0	2.2	.2	.5	.2	.5	.2	.0	.0	.0	1.8	4.0	1.8	.4
93.0	2.2	.2	.5	.2	.5	.3	.0	.0	.0	1.8	4.0	1.7	.4
94.0	2.2	.2	.5	.3	.5	.2	.0	.0	.0	1.8	4.0	1.7	.5
95.0	2.2	.2	.6	.2	.5	.2	.0	.0	.0	1.8	4.0	1.7	.5
96.0	2.2	.2	.6	.3	.5	.2	.0	.0	.0	1.8	4.0	1.7	.5
97.0	2.2	.2	.6	.3	.5	.2	.0	.0	.0	1.8	4.0	1.7	.5
98.0	2.2	.2	.6	.3	.5	.2	.0	.0	.0	1.8	4.0	1.7	.6
99.0	2.3	.2	.6	.3	.5	.2	.0	.0	.0	1.7	4.0	1.7	.6

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	2.3	-.2	-.6	-.3	-.5	-.3	.0	.0	.0	1.7	4.0	1.7	.6
101.0	2.3	-.2	-.6	-.4	-.5	-.3	.0	.0	.0	1.7	4.0	1.6	.6
102.0	2.2	-.2	-.6	-.4	-.5	-.3	.0	.0	.0	1.7	3.9	1.6	.7
103.0	2.2	-.2	-.6	-.4	-.5	-.2	.0	.0	.0	1.7	3.9	1.6	.7
104.0	2.2	-.2	-.6	-.4	-.5	-.2	.0	.0	.0	1.7	3.9	1.5	.6
105.0	2.2	-.2	-.6	-.4	-.5	-.2	.0	.0	.0	1.7	3.8	1.5	.6
106.0	2.2	-.2	-.6	-.4	-.4	-.2	.0	.0	.0	1.6	3.8	1.5	.6
107.0	2.2	-.2	-.6	-.4	-.4	-.2	.0	.0	.0	1.6	3.8	1.5	.6
108.0	2.2	-.2	-.6	-.4	-.4	-.2	.0	.0	.0	1.6	3.8	1.6	.6
109.0	2.2	-.2	-.6	-.4	-.4	-.2	.0	.0	.0	1.8	4.0	1.5	.6
110.0	2.3	-.3	-.6	-.3	-.3	-.2	.0	-.1	.0	1.8	4.2	1.6	.8
111.0	2.5	-.5	-.5	-.3	-.3	-.2	.0	-.2	.0	1.6	4.4	2.0	.8
112.0	3.2	-.5	-.5	-.3	-.3	-.2	.0	-.2	.0	1.5	4.7	2.3	.9
113.0	3.5	-.5	-.5	-.3	-.3	-.2	.0	-.2	.0	1.5	5.0	2.4	1.1
114.0	3.9	-.5	-.4	-.3	-.3	-.2	.0	-.2	.0	1.4	5.2	2.3	1.5
115.0	4.1	-.5	-.4	-.3	-.3	-.2	.0	-.2	.0	1.3	5.3	2.1	2.0
116.0	4.2	-.5	-.4	-.3	-.3	-.2	.0	-.2	.0	1.3	5.5	1.9	2.3
117.0	4.2	-.5	-.4	-.3	-.3	-.2	.0	-.2	.0	1.3	5.5	1.8	2.4
118.0	4.2	-.5	-.4	-.3	-.3	-.2	.0	-.2	.0	1.3	5.4	1.6	2.4
119.0	3.8	-.5	-.4	-.3	-.3	-.2	.0	-.2	.0	1.4	5.2	1.5	2.3
120.0	3.6	-.5	-.4	-.3	-.3	-.2	.0	-.2	.0	1.4	5.0	1.6	2.0
121.0	3.3	-.5	-.4	-.3	-.3	-.2	.0	-.2	.0	1.5	4.8	1.6	1.7
122.0	3.2	-.5	-.3	-.3	-.3	-.2	.0	-.2	.0	1.6	4.8	1.6	1.5
123.0	2.9	-.5	-.3	-.3	-.3	-.2	.0	-.2	.0	1.6	4.6	1.6	1.3
124.0	2.7	-.5	-.3	-.3	-.3	-.2	.0	-.2	.0	1.6	4.3	1.6	1.0
125.0	2.4	-.5	-.4	-.3	-.3	-.2	.0	-.2	.0	1.6	4.0	1.6	.8
126.0	2.2	-.5	-.3	-.3	-.3	-.2	.0	-.2	.0	1.6	3.7	1.6	.5
127.0	1.9	-.5	-.3	-.3	-.3	-.1	.0	-.2	.0	2.1	4.0	1.5	.3
128.0	1.6	-.5	-.3	-.3	-.3	-.1	.0	-.2	.0	4.3	5.9	1.5	.1
129.0	1.4	-.5	-.3	-.3	-.3	-.1	.0	-.2	.0	5.9	7.2	1.5	-.2
130.0	1.7	-.5	-.4	-.3	-.3	-.1	.0	-.2	.0	5.6	7.2	1.7	.0
140.0	5.8	-.4	-1.2	-1.1	-.9	-.5	-.1	.2	.0	3.3	9.1	3.4	2.4
150.0	4.1	-.3	-1.1	-1.0	-.8	-.4	-.1	.2	.0	3.2	7.2	3.1	.9
160.0	2.3	-.3	-1.1	-1.0	-.8	-.4	-.1	.1	.0	2.9	5.2	2.9	-.6
170.0	.8	-.3	-1.0	-.9	-.7	-.4	.0	.1	.0	2.7	3.5	2.7	-1.9
180.0	-.6	-.3	-.9	-.8	-.6	-.3	.0	.1	.0	2.5	1.9	2.5	-3.1
190.0	-1.7	-.3	-.8	-.7	-.6	-.3	.0	.1	.0	2.3	.6	2.3	-4.0
200.0	-2.6	-.3	-.8	-.7	-.5	-.3	.0	.1	.0	2.1	-.5	2.2	-4.8
210.0	-3.4	-.3	-.7	-.6	-.5	-.2	.0	.1	.0	1.9	-1.5	2.0	-5.4
220.0	-4.0	-.3	-.6	-.6	-.4	-.2	.0	.1	.0	1.7	-2.2	1.9	-5.8
230.0	-4.4	-.3	-.6	-.5	-.4	-.2	.0	.1	.0	1.6	-2.8	1.7	-6.2
240.0	-4.6	-.3	-.5	-.5	-.4	-.2	.0	.1	.0	1.5	-3.3	1.6	-6.4
250.0	-5.1	-.2	-.5	-.4	-.3	-.2	.0	.0	.0	1.3	-3.6	1.5	-6.4
260.0	-5.1	-.2	-.4	-.4	-.3	-.2	.0	.0	.0	1.2	-3.8	1.4	-6.4
270.0	-5.0	-.2	-.4	-.4	-.3	-.1	.0	.0	.0	1.1	-4.0	1.3	-6.3
280.0	-4.9	-.2	-.3	-.3	-.2	-.1	.0	.0	.0	1.0	-3.9	1.2	-6.1
290.0	-4.7	-.2	-.3	-.3	-.2	-.1	.0	.0	.0	.9	-3.8	1.0	-5.7
300.0	-4.4	-.2	-.3	-.2	-.2	-.1	.0	.0	.0	.7	-3.7	.9	-5.4
310.0	-4.1	-.2	-.2	-.2	-.1	-.1	.0	.0	.0	.6	-3.4	.9	-4.9
320.0	-3.6	-.1	-.2	-.2	-.1	-.1	.0	.0	.0	.6	-3.1	.8	-4.4

AERO/ENVIRONMENT

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	2.3	.1	.6	.7	.5	.3	.0	.0	.0	1.7	4.0	1.7	.6
101.0	2.3	.1	.6	.4	.5	.3	.0	.0	.0	1.7	4.0	1.6	.6
102.0	2.2	.1	.6	.4	.5	.3	.0	.0	.0	1.7	3.9	1.6	.7
103.0	2.2	.1	.6	.4	.5	.2	.0	.0	.0	1.7	3.9	1.6	.7
104.0	2.2	.1	.6	.4	.4	.2	.0	.0	.0	1.7	3.9	1.5	.6
105.0	2.2	.2	.6	.4	.4	.2	.0	.0	.0	1.7	3.8	1.5	.6
106.0	2.2	.2	.6	.4	.4	.2	.0	.0	.0	1.6	3.8	1.5	.6
107.0	2.2	.2	.6	.4	.4	.2	.0	.0	.0	1.6	3.8	1.5	.6
108.0	2.2	.2	.6	.4	.4	.2	.0	.0	.0	1.6	3.8	1.6	.6
109.0	2.2	.3	.6	.4	.4	.2	.0	.0	.0	1.8	4.0	1.5	.6
110.0	2.3	.5	.6	.3	.4	.2	.0	.1	.0	1.8	4.2	1.6	.8
111.0	2.3	.5	.5	.3	.3	.2	.0	.2	.0	1.6	4.4	2.0	.8
112.0	3.2	.5	.5	.3	.3	.2	.0	.2	.0	1.5	4.7	2.3	.9
113.0	3.5	.5	.5	.3	.3	.2	.0	.2	.0	1.5	5.0	2.4	1.1
114.0	3.8	.5	.4	.3	.3	.2	.0	.1	.0	1.4	5.2	2.3	1.5
115.0	4.1	.5	.4	.3	.3	.2	.0	.1	.0	1.3	5.3	2.1	2.0
116.0	4.2	.5	.4	.3	.3	.2	.0	.1	.0	1.3	5.5	1.9	2.3
117.0	4.2	.5	.4	.3	.3	.2	.0	.1	.0	1.3	5.5	1.8	2.4
118.0	4.0	.5	.3	.3	.3	.2	.0	.1	.0	1.3	5.4	1.6	2.4
119.0	3.8	.5	.3	.3	.3	.2	.0	.1	.0	1.4	5.2	1.5	2.3
120.0	3.6	.6	.3	.3	.3	.2	.0	.1	.0	1.4	5.0	1.6	2.0
121.0	3.3	.7	.3	.3	.3	.2	.0	.2	.0	1.5	4.8	1.6	1.7
122.0	3.2	.9	.3	.3	.3	.2	.0	.2	.0	1.6	4.8	1.6	1.5
123.0	2.9	.9	.3	.3	.3	.2	.0	.2	.0	1.6	4.6	1.6	1.3
124.0	2.7	.9	.3	.3	.3	.2	.0	.2	.0	1.6	4.3	1.6	1.0
125.0	2.4	.9	.3	.3	.3	.2	.0	.2	.0	1.6	4.0	1.6	.8
126.0	2.2	.9	.3	.3	.3	.2	.0	.2	.0	1.6	3.7	1.6	.5
127.0	1.9	.9	.3	.3	.3	.2	.0	.2	.0	2.1	4.0	1.5	.3
128.0	1.6	.9	.3	.3	.3	.2	.0	.2	.0	4.3	5.9	1.5	.1
129.0	1.4	.9	.3	.3	.3	.2	.0	.2	.0	5.9	7.2	1.5	-.2
130.0	1.7	.9	.4	.3	.3	.2	.0	.2	.0	5.6	7.2	1.7	.0
140.0	5.8	.3	1.2	1.2	1.0	.5	.1	-.2	.0	7.3	9.1	3.4	2.4
150.0	4.0	.2	1.1	1.1	.8	.5	.1	-.2	.0	3.2	7.2	3.1	.9
160.0	2.3	.2	1.0	1.0	.8	.4	.1	-.2	.0	2.9	5.2	2.9	-.6
170.0	.6	.2	.9	.9	.7	.4	.1	-.2	.0	2.7	3.5	2.7	-1.9
180.0	-.6	.2	.9	.8	.7	.4	.0	-.2	.0	2.5	1.9	2.5	-3.1
190.0	-1.7	.2	.8	.8	.6	.3	.0	-.1	.0	2.3	.6	2.3	-4.0
200.0	-2.5	.2	.7	.7	.6	.3	.0	-.1	.0	2.1	-.5	2.2	-4.8
210.0	-3.4	.2	.7	.6	.5	.3	.0	-.1	.0	1.9	-1.5	2.0	-5.4
220.0	-4.0	.2	.6	.6	.5	.2	.0	-.1	.0	1.7	-2.2	1.9	-5.8
230.0	-4.4	.2	.6	.5	.4	.2	.0	-.1	.0	1.6	-2.8	1.7	-6.2
240.0	-4.8	.2	.5	.5	.4	.2	.0	-.1	.0	1.5	-3.3	1.6	-6.4
250.0	-5.0	.2	.5	.4	.3	.2	.0	-.1	.0	1.3	-3.6	1.5	-6.4
260.0	-5.0	.2	.4	.4	.3	.2	.0	-.1	.0	1.2	-3.8	1.4	-6.4
270.0	-5.0	.2	.4	.4	.3	.1	.0	-.1	.0	1.1	-4.0	1.3	-6.3
280.0	-4.9	.2	.3	.3	.2	.1	.0	.0	.0	1.0	-3.9	1.2	-6.1
290.0	-4.7	.2	.3	.3	.2	.1	.0	.0	.0	.9	-3.8	1.0	-5.7
300.0	-4.4	.2	.2	.2	.2	.1	.0	.0	.0	.7	-3.7	.9	-5.4
310.0	-4.1	.1	.2	.2	.1	.1	.0	.0	.0	.6	-3.4	.9	-4.9
320.0	-3.8	.1	.2	.2	.1	.1	.0	.0	.0	.6	-3.1	.8	-4.4

AERO/ENVIRONMENT

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-3.2	-.1	-.1	-.1	-.1	.0	.0	.0	.0	.5	-2.7	.7	-3.9
340.0	-2.6	-.1	-.1	-.1	-.1	.0	.0	.0	.0	.4	-2.2	.7	-3.3
350.0	-2.0	-.1	-.1	.0	.0	.0	.0	.0	.0	.3	-1.7	.7	-2.7
360.0	-1.4	-.1	.0	.0	.0	.0	.0	.0	.0	.3	-1.1	.7	-2.1
370.0	-.8	-.1	.0	.0	.0	.0	.0	.0	.0	.3	-.5	.7	-1.5
380.0	-.1	.0	.1	.1	.1	.0	.0	.0	.0	.4	.2	.7	-.8
390.0	.6	.0	.1	.1	.1	.0	.0	.0	.0	.4	1.0	.8	-.2
400.0	1.2	.0	.1	.1	.1	.1	.0	.0	.0	.7	1.9	.9	.4
410.0	1.9	.0	.2	.2	.1	.1	.0	.0	.0	1.2	3.1	.9	1.0
420.0	2.6	.0	.2	.2	.2	.1	.0	.0	.0	1.3	3.9	1.1	1.5
430.0	3.1	.0	.3	.2	.2	.1	.0	.0	.0	1.2	4.3	1.1	2.0
440.0	3.6	.1	.3	.3	.2	.1	.0	-.1	.0	1.0	4.6	1.2	2.4
450.0	4.0	.1	.3	.3	.2	.1	.0	-.1	.0	1.0	5.0	1.4	2.6
460.0	4.1	.1	.4	.3	.3	.1	.0	-.1	.0	1.2	5.3	1.8	2.3
470.0	4.0	.1	.4	.4	.3	.2	.0	-.1	.0	1.4	5.4	1.9	2.1

AERO/ENVIRONMENT

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-3.2	.1	.1	.1	.1	.0	.0	.0	.0	.5	-2.7	.7	-3.9
340.0	-2.6	.1	.1	.1	.1	.0	.0	.0	.0	.4	-2.2	.7	-3.3
350.0	-2.0	.1	.0	.0	.0	.0	.0	.0	.0	.3	-1.7	.7	-2.7
360.0	-1.4	.1	.0	.0	.0	.0	.0	.0	.0	.3	-1.1	.7	-2.1
370.0	-.6	.1	.0	.0	.0	.0	.0	.0	.0	.3	-.5	.7	-1.5
380.0	-.1	.0	-.1	-.1	-.1	.0	.0	.0	.0	.4	.2	.7	-.8
390.0	.6	.0	-.1	-.1	-.1	.0	.0	.0	.0	.4	1.0	.8	-.2
400.0	1.2	.0	-.1	-.1	-.1	-.1	.0	.0	.0	.7	1.9	.9	.4
410.0	1.9	.0	-.2	-.2	-.1	-.1	.0	.0	.0	1.2	3.1	.9	1.0
420.0	2.6	.0	-.2	-.2	-.2	-.1	.0	.0	.0	1.3	3.9	1.1	1.5
430.0	3.1	.0	-.2	-.2	-.2	-.1	.0	.1	.0	1.2	4.3	1.1	2.0
440.0	3.6	.0	-.3	-.3	-.2	-.1	.0	.1	.0	1.0	4.6	1.2	2.4
450.0	4.0	-.1	-.3	-.3	-.2	-.1	.0	.1	.0	1.0	5.0	1.4	2.6
460.0	4.1	-.1	-.3	-.3	-.3	-.2	.0	.1	.0	1.2	5.3	1.8	2.3
470.0	4.0	-.1	-.4	-.4	-.3	-.2	.0	.1	.0	1.4	5.4	1.9	2.1

MASS PROPERTIES

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	-3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-2.9	.9	-4.6
2.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	3.4	.3	2.7
3.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	5.4	.6	4.2
4.0	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	6.2	.7	4.7
5.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	6.6	.8	5.0
6.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	6.8	.8	5.1
7.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	6.8	.8	5.2
8.0	6.5	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.7	7.2	.8	5.7
9.0	7.5	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.7	8.2	.9	6.6
10.0	8.3	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	9.0	.9	7.4
11.0	8.6	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.8	9.4	.9	7.7
12.0	8.5	.1	.0	.0	.0	.0	-.1	.0	.0	.0	.9	9.4	.8	7.7
13.0	8.3	.1	.0	.0	.0	.0	-.1	.0	.0	.0	.9	9.2	.8	7.5
14.0	7.9	.1	.0	.0	.0	.0	-.1	.0	.0	.0	.9	8.8	.7	7.2
15.0	7.5	.1	.0	.0	.0	.0	-.1	.0	.0	.0	.9	8.4	.6	6.9
16.0	7.1	.1	.0	.0	.0	.0	-.1	.0	.0	.0	.8	7.9	.6	6.5
17.0	6.3	.3	.0	.0	.0	.0	-.1	.0	.0	.0	1.1	7.4	.6	5.7
18.0	4.8	.3	.0	.0	.0	.0	-.1	.0	.0	.0	1.3	6.1	.4	4.4
19.0	3.6	.3	.0	.0	.0	.0	-.1	.0	.0	.0	1.0	4.5	.5	3.1
20.0	2.9	.3	.0	.0	.0	.0	-.1	.0	.0	.0	.9	3.7	.6	2.3
21.0	2.3	.2	.0	.0	.0	.0	-.1	.0	.0	.0	.8	3.1	.6	1.7
22.0	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.8	2.4	1.3	.4
23.0	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.8	1.4	-.4
24.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.3	1.3	-.9
25.0	-.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.9	.6	1.1	-1.4
26.0	-.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	1.1	-2.0
27.0	-1.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	-.6	.8	-2.4
28.0	-2.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.2	.7	-2.7
29.0	-2.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	-1.4	.7	-3.0
30.0	-2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.4	.8	-3.1
31.0	-2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.4	.9	-3.1
32.0	-2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-1.4	.9	-3.1
33.0	-2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-1.5	.9	-3.2
34.0	-2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.5	1.3	-3.7
35.0	-2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.6	1.8	-4.3
36.0	-2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.7	2.3	-4.8
37.0	-2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-1.7	2.5	-5.1
38.0	-2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-1.9	2.3	-5.0
39.0	-2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.1	1.9	-4.7
40.0	-2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.3	1.5	-4.5
41.0	-3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	-2.3	1.3	-4.2
42.0	-3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	-2.4	1.0	-4.0
43.0	-3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	-2.4	.7	-3.8
44.0	-3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.6	-3.8
45.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
46.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
47.0	-3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
48.0	-3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.8	-4.0
49.0	-3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9

MASS PROPERTIES

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	-3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-2.9	.9	-4.6
2.0	2.[illegible]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	3.4	.3	2.7
3.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	5.4	.6	4.2
4.0	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	6.2	.7	4.7
5.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	6.6	.8	5.0
6.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	6.8	.8	5.1
7.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	6.8	.8	5.2
8.0	6.5	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	7.2	.8	5.7
9.0	7.5	.0	-.2	.0	.0	.0	.0	.0	.0	.0	.7	8.2	.9	6.6
10.0	8.3	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.8	9.0	.9	7.4
11.0	8.6	.0	.0	.0	.0	.0	.1	.0	.0	.0	.8	9.4	.9	7.7
12.0	8.5	.0	.1	.0	.0	.0	.1	.0	.0	.0	.9	9.4	.8	7.7
13.0	8.3	.0	.1	.0	.0	.0	.1	.0	.0	.0	.9	9.2	.8	7.5
14.0	7.9	.0	.1	.0	.0	.0	.1	.0	.0	.0	.9	8.8	.7	7.2
15.0	7.5	.0	.2	.0	.0	.0	.1	.0	.0	.0	.9	8.4	.6	6.9
16.0	7.1	.0	.2	.0	.0	.0	.1	.0	.0	.0	.8	7.9	.6	6.5
17.0	6.3	.0	.3	.0	.0	.0	.1	.0	.0	.0	1.1	7.4	.6	5.7
18.0	4.8	.0	.4	.0	.0	.0	.1	.0	.0	.0	1.3	6.1	.4	4.4
19.0	3.6	.0	.3	.0	.0	.0	.1	.0	.0	.0	1.0	4.5	.5	3.1
20.0	2.9	.0	.3	.0	.0	.0	.1	.0	.0	.0	.9	3.7	.6	2.3
21.0	2.3	.0	.2	.0	.0	.0	.1	.0	.0	.0	.8	3.1	.6	1.7
22.0	1.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.8	2.4	1.3	.4
23.0	1.[illegible]	.0	.2	.0	.0	.0	.0	.0	.0	.0	.8	1.8	1.4	-.4
24.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.9	1.3	1.3	-.9
25.0	-.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.9	.6	1.1	-1.4
26.0	-.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.9	-.0	1.1	-2.0
27.0	-1.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.0	-.6	.8	-2.4
28.0	-2.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.9	-1.2	.7	-2.7
29.0	-2.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.8	-1.4	.7	-3.0
30.0	-2.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.9	-1.4	.8	-3.1
31.0	-2.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.9	-1.4	.9	-3.1
32.0	-2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-1.4	.9	-3.1
33.0	-2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-1.5	.9	-3.2
34.0	-2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.5	1.3	-3.7
35.0	-2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.6	1.8	-4.3
36.0	-2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.7	2.3	-4.8
37.0	-2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-1.7	2.5	-5.1
38.0	-2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-1.9	2.3	-5.0
39.0	-2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.1	1.9	-4.7
40.0	-2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.3	1.5	-4.5
41.0	-3.[illegible]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	-2.3	1.3	-4.2
42.0	-3.[illegible]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	-2.4	1.0	-4.0
43.0	-3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	-2.4	.7	-3.8
44.0	-3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.6	-3.8
45.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
46.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
47.0	-3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
48.0	-3.[illegible]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.8	-4.0
49.0	-2.[illegible]	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9

MASS PROPERTIES

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	-3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
51.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
52.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
53.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.7	-3.9
54.0	-3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
55.0	-3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.7	-3.9
56.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
57.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
58.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
59.0	-3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
60.0	-3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-2.3	.8	-3.9
61.0	-2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-2.0	.9	-3.8
62.0	-2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	-1.6	1.2	-3.8
63.0	-2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	-1.2	1.4	-3.6
64.0	-1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	-.8	1.5	-3.4
65.0	-1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	-.4	1.5	-3.0
66.0	-1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	-.1	1.5	-2.6
67.0	-.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.2	1.4	-2.3
68.0	-.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.9	1.4	-1.9
69.0	-.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	1.6	1.5	1.6	-1.7
70.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.5	2.2	-1.5
71.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.3	1.6	-.8
72.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.5	.6	-.1
73.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	2.0	.8	-.3
74.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	2.4	1.2	-.4
75.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	2.7	1.6	-.4
76.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	3.0	1.6	-.1
77.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	3.2	1.6	.2
78.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	3.4	1.6	.4
79.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	3.4	1.6	.6
80.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	3.4	1.4	.8
81.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	3.5	1.2	.8
82.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	3.5	1.3	.7
83.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.7	1.4	.5
84.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	3.7	1.6	.4
85.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	3.8	1.7	.3
86.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	3.8	1.8	.2
87.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	3.9	1.8	.2
88.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	3.9	1.8	.2
89.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.0	1.9	.2
90.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.9	.3
91.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.8	.3
92.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.8	.4
93.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.7	.4
94.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.7	.5
95.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.7	.5
96.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.7	.5
97.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.7	.5
98.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.7	.6
99.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.0	1.7	.6

MASS PROPERTIES

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	-3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
51.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
52.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
53.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.7	-3.9
54.0	-3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
55.0	-3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.7	-3.9
56.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
57.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
58.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
59.0	-3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
60.0	-3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-2.3	.8	-3.9
61.0	-2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-2.0	.9	-3.8
62.0	-2.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	-1.6	1.2	-3.8
63.0	-2.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	-1.2	1.4	-3.6
64.0	-1.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	-.8	1.5	-3.4
65.0	-1.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	-.4	1.5	-3.0
66.0	-1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	-.1	1.5	-2.6
67.0	-.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.2	1.4	-2.3
68.0	-.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.9	1.4	-1.9
69.0	-.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.5	1.6	-1.7
70.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.5	2.2	-1.5
71.0	.7	.0	.0	.1	.0	.0	.0	.0	.0	.0	.6	1.3	1.6	-.8
72.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.5	.6	-.1
73.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	2.0	.8	-.3
74.0	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.6	2.4	1.2	-.4
75.0	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	2.7	1.6	-.4
76.0	1.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	3.0	1.6	-.1
77.0	1.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	3.2	1.6	.2
78.0	2.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	3.4	1.6	.4
79.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	3.4	1.6	.6
80.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	3.4	1.4	.8
81.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	3.5	1.2	.8
82.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	3.5	1.3	.7
83.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.7	1.4	.5
84.0	2.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1.8	3.7	1.6	.4
85.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	3.8	1.7	.3
86.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	3.8	1.8	.2
87.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	3.9	1.8	.2
88.0	2.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.9	3.9	1.8	.2
89.0	2.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.0	1.9	.2
90.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.9	.3
91.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.8	.3
92.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.8	.4
93.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.7	.4
94.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.7	.5
95.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.7	.5
96.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.7	.5
97.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.7	.5
98.0	2.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.7	.6
99.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.0	1.7	.6

MASS PROPERTIES

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
180.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.0	1.7	.6
181.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.0	1.6	.6
182.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.9	1.6	.7
183.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.9	1.6	.7
184.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.9	1.5	.6
185.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.8	1.5	.6
186.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	3.8	1.5	.6
187.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	3.8	1.5	.6
188.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	3.8	1.6	.6
189.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.5	.6
190.0	2.2	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.8	4.2	1.6	.8
191.0	2.4	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.6	4.4	2.0	.8
192.0	3.2	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.5	4.7	2.3	.9
193.0	3.8	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.5	5.0	2.4	1.1
194.0	3.9	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.4	5.2	2.3	1.5
195.0	4.1	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.3	5.3	2.1	2.0
196.0	4.2	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.3	5.5	1.9	2.3
197.0	4.2	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.3	5.5	1.8	2.4
198.0	4.0	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.3	5.4	1.6	2.4
199.0	3.8	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.4	5.2	1.5	2.3
200.0	3.6	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.4	5.0	1.6	2.0
201.0	3.3	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.5	4.8	1.6	1.7
202.0	3.2	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.6	4.8	1.6	1.5
203.0	2.9	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.6	4.6	1.6	1.3
204.0	2.7	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.6	4.3	1.6	1.0
205.0	2.4	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.6	4.0	1.6	.8
206.0	2.2	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.6	3.7	1.6	.5
207.0	1.9	-.1	.1	.0	.0	.0	.0	.0	.0	.0	2.1	4.0	1.5	.3
208.0	1.6	-.1	.1	.0	.0	.0	.0	.0	.0	.0	4.3	5.9	1.5	.1
209.0	1.4	-.1	.1	.0	.0	.0	.0	.0	.0	.0	5.9	7.2	1.5	-.2
210.0	1.7	-.1	.1	.0	.0	.0	.0	.0	.0	.0	5.6	7.2	1.7	.0
140.0	5.8	-.2	.0	.0	.0	.0	.0	.1	.0	.0	3.3	9.1	3.4	2.4
150.0	4.6	-.2	.0	.0	.0	.0	.0	.1	.0	.0	3.2	7.2	3.1	.9
160.0	2.3	-.2	.0	.0	.0	.0	.0	.1	.0	.0	2.9	5.2	2.9	-.6
170.0	.6	-.2	.0	.0	.0	.0	.0	.1	.0	.0	2.7	3.5	2.7	-1.9
180.0	-.6	-.2	.0	.0	.0	.0	.0	.1	.0	.0	2.5	1.9	2.5	-3.1
190.0	-1.7	-.2	.0	.0	.0	.0	.0	.1	.0	.0	2.3	.6	2.3	-4.0
200.0	-2.6	-.2	.0	.0	.0	.0	.0	.1	.0	.0	2.1	-.5	2.2	-4.8
210.0	-3.4	-.2	.0	.0	.0	.0	.0	.1	.0	.0	1.9	-1.5	2.0	-5.4
220.0	-4.0	-.2	.0	.0	.0	.0	.0	.1	.0	.0	1.7	-2.2	1.9	-5.8
230.0	-4.4	-.2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	-2.8	1.7	-6.2
240.0	-4.9	-.2	.0	.0	.0	.0	.0	.0	.0	.0	1.5	-3.3	1.6	-6.4
250.0	-5.2	-.2	.0	.0	.0	.0	.0	.0	.0	.0	1.3	-3.6	1.5	-6.4
260.0	-5.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	1.2	-3.8	1.4	-6.4
270.0	-5.2	-.2	.0	.0	.0	.0	.0	.0	.0	.0	1.1	-4.0	1.3	-6.3
280.0	-4.9	-.2	.0	.0	.0	.0	.0	.0	.0	.0	1.0	-3.9	1.2	-6.1
290.0	-4.7	-.2	.0	.0	.0	.0	.0	.0	.0	.1	.9	-3.8	1.0	-5.7
300.0	-4.4	-.2	.0	.0	.0	.0	.0	.0	.0	.1	.7	-3.7	.9	-5.4
310.0	-4.1	-.2	.0	.0	.0	.0	.0	.0	.0	.1	.6	-3.4	.9	-4.9
320.0	-3.6	-.2	.0	.0	.0	.0	.0	.0	.0	.1	.6	-3.1	.8	-4.4

MASS PROPERTIES

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.0	1.7	.6
101.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.0	1.6	.6
102.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.9	1.6	.7
103.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.9	1.6	.7
104.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.9	1.5	.6
105.0	2.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.8	1.5	.6
106.0	2.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.6	3.8	1.5	.6
107.0	2.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.6	3.8	1.5	.6
108.0	2.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.6	3.8	1.6	.6
109.0	2.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0	1.5	.6
110.0	2.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.2	1.6	.8
111.0	2.5	.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.6	4.4	2.0	.8
112.0	3.2	.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.5	4.7	2.3	.9
113.0	3.5	.1	-.1	.0	.0	.0	.0	.0	.0	.0	1.5	5.0	2.4	1.1
114.0	3.9	.1	-.1	.0	.0	.0	.0	.0	.0	.0	1.4	5.2	2.3	1.5
115.0	4.1	.1	-.1	.0	.0	.0	.0	.0	.0	.0	1.3	5.3	2.1	2.0
116.0	4.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	5.5	1.9	2.3
117.0	4.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	5.5	1.8	2.4
118.0	4.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	5.4	1.6	2.4
119.0	3.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.4	5.2	1.5	2.3
120.0	3.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.4	5.0	1.6	2.0
121.0	3.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.5	4.8	1.6	1.7
122.0	3.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	4.8	1.6	1.5
123.0	2.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	4.6	1.6	1.3
124.0	2.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	4.3	1.6	1.2
125.0	2.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	4.0	1.6	.8
126.0	2.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	3.7	1.6	.5
127.0	1.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.1	4.0	1.5	.3
128.0	1.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	4.3	5.9	1.5	-.1
129.0	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	5.9	7.2	1.5	-.2
130.0	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	5.6	7.2	1.7	-.2
140.0	5.8	.3	.0	.0	.0	.0	.0	-.1	.0	.0	3.3	9.1	3.4	2.4
150.0	4.0	.3	.0	.0	.0	.0	.0	-.1	.0	.0	3.2	7.2	3.1	.9
162.0	2.3	.2	.0	.0	.0	.0	.0	-.1	.0	.0	2.9	5.2	2.9	-.6
170.0	.8	.2	.0	.0	.0	.0	.0	-.1	.0	.0	2.7	3.5	2.7	-1.9
180.0	-.6	.2	.0	.0	.0	.0	.0	-.1	.0	.0	2.5	1.9	2.5	-3.1
190.0	-1.7	.2	.0	.0	.0	.0	.0	-.1	.0	.0	2.3	.6	2.3	-4.0
200.0	-2.6	.2	.0	.0	.0	.0	.0	-.1	.0	.0	2.1	-.5	2.2	-4.8
210.0	-3.4	.2	.0	.0	.0	.0	.0	-.1	.0	.0	1.9	-1.5	2.0	-5.4
220.0	-4.2	.2	.0	.0	.0	.0	.0	-.1	.0	.0	1.7	-2.2	1.9	-5.8
230.0	-4.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	-2.8	1.7	-6.2
240.0	-4.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.5	-3.3	1.6	-6.4
250.0	-5.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.3	-3.6	1.5	-6.4
260.0	-5.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.2	-3.8	1.4	-6.4
270.0	-5.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.1	-4.0	1.3	-6.3
280.0	-4.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.0	-3.9	1.2	-6.1
290.0	-4.7	.2	.0	.0	.0	.0	.0	.0	.0	-.1	.9	-3.8	1.0	-5.7
300.0	-4.4	.2	.0	.0	.0	.0	.0	.0	.0	-.1	.7	-3.7	.9	-5.4
310.0	-4.2	.2	.0	.0	.0	.0	.1	.0	.0	-.1	.6	-3.4	.9	-4.9
320.0	-3.8	.2	.0	.0	.0	.0	.0	.0	.0	-.1	.6	-3.1	.8	-4.4

MASS PROPERTIES

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-3.2	-.2	.0	.0	.0	.0	.0	.0	.0	.1	.5	-2.7	.7	-3.9
340.0	-2.6	-.2	.0	.0	.0	.0	.0	.0	.0	.1	.4	-2.2	.7	-3.3
350.0	-2.0	-.2	.0	.0	.0	.0	.0	.0	.0	.1	.3	-1.7	.7	-2.7
360.0	-1.4	-.2	.0	.0	.0	.0	.0	.0	-.1	.1	.3	-1.1	.7	-2.1
370.0	-.8	-.2	.0	.0	.0	.0	.0	.0	-.1	.1	.3	-.5	.7	-1.5
380.0	-.1	-.1	.0	.0	.0	.0	.0	.0	-.1	.1	.4	.2	.7	-.8
390.0	.6	-.1	.0	.0	.0	.0	.0	.0	-.1	.1	.4	1.0	.8	-.2
400.0	1.2	-.1	.0	.0	.0	.0	.0	.0	-.1	.1	.7	1.9	.9	.4
410.0	1.9	-.1	.0	.0	.0	.0	.0	.0	-.1	.1	1.2	3.1	.9	1.0
420.0	2.6	-.2	.0	.0	.0	.0	.0	.0	-.1	.1	1.3	3.9	1.1	1.5
430.0	3.1	-.1	.0	.0	.0	.0	.0	.0	-.1	.2	1.2	4.3	1.1	2.0
440.0	3.6	-.1	.0	.0	.0	.0	.0	.0	-.1	.2	1.0	4.6	1.2	2.4
450.0	4.0	-.1	.0	.0	.0	.0	.0	.0	-.1	.2	1.0	5.0	1.4	2.6
460.0	4.1	-.1	.0	.0	.0	.0	.0	.0	-.1	.2	1.2	5.3	1.6	2.3
470.0	4.3	-.1	.0	.0	.0	.0	.0	.0	-.1	.3	1.4	5.4	1.9	2.1

MASS PROPERTIES

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-3.3	.2	.0	.0	.0	.0	.0	.0	.0	-.1	.5	-2.7	.7	-3.9
340.0	-2.6	.2	.0	.0	.0	.0	.0	.0	.0	-.1	.4	-2.2	.7	-3.3
350.0	-2.0	.2	.0	.0	.0	.0	.0	.0	.0	-.1	.3	-1.7	.7	-2.7
360.0	-1.4	.2	.0	.0	.0	.0	.0	.0	.1	-.1	.3	-1.1	.7	-2.1
370.0	-.8	.1	.0	.0	.0	.0	.0	.0	.1	-.1	.3	-.5	.7	-1.5
380.0	-.1	.1	.0	.0	.0	.0	.0	.0	.1	-.1	.4	.2	.7	-.8
390.0	.6	.1	.0	.0	.0	.0	.0	.0	.1	-.1	.4	1.0	.8	-.2
400.0	1.2	.1	.0	.0	.0	.0	.0	.0	.1	-.1	.7	1.9	.9	.4
410.0	1.9	.1	.0	.0	.0	.0	.0	.0	.1	-.1	1.2	3.1	.9	1.0
420.0	2.6	.1	.0	.0	.0	.0	.0	.0	.1	-.1	1.3	3.9	1.1	1.5
430.0	3.1	.1	.0	.0	.0	.0	.0	.0	.1	-.2	1.2	4.3	1.1	2.0
440.0	3.6	.1	.0	.0	.0	.0	.0	.0	.1	-.2	1.0	4.6	1.2	2.4
450.0	4.0	.1	.0	.0	.0	.0	.0	.0	.1	-.2	1.0	5.0	1.4	2.6
460.0	4.1	.1	.0	.0	.0	.0	.0	.0	.1	-.2	1.2	5.3	1.8	2.3
470.0	4.0	.1	.0	.0	.0	.0	.0	.0	.1	-.2	1.4	5.4	1.9	2.1

GN/C

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	-3.7	.0	.0	.0	.0	.7	.0	.0	.0	.9	-2.9	.9	-4.6
2.0	3.0	.0	.0	.0	.0	-.1	.0	.0	.0	.4	3.4	.3	2.7
3.0	4.8	.0	.0	.0	.0	-.3	.0	.0	.0	.6	5.4	.6	4.2
4.0	5.4	.0	.0	.0	.0	-.4	.0	.0	.0	.8	6.2	.7	4.7
5.0	5.8	.0	.0	.0	.0	-.4	.0	.0	.0	.8	6.6	.8	5.0
6.0	5.9	.0	.0	.0	.0	-.4	.0	.0	.0	.9	6.8	.8	5.1
7.0	6.0	.0	.0	.0	.0	-.4	.0	.0	.0	.9	6.8	.8	5.2
8.0	6.5	.0	.0	.0	.0	-.4	.0	.0	.0	.7	7.2	.8	5.7
9.0	7.5	.0	.0	.0	.0	-.5	.0	.0	.0	.7	8.2	.9	6.6
10.0	8.3	.0	.0	.0	.0	-.4	.0	.0	.0	.8	9.0	.9	7.4
11.0	8.6	.0	.0	-.1	.0	-.4	.0	.0	.0	.8	9.4	.9	7.7
12.0	8.5	.0	.0	-.1	.0	-.4	.0	.0	.0	.9	9.4	.8	7.7
13.0	8.3	.0	.0	-.1	.0	-.3	.0	.0	.0	.9	9.2	.8	7.5
14.0	7.9	.0	.0	-.1	.0	-.3	.0	.0	.0	.9	8.8	.7	7.2
15.0	7.5	.0	.0	-.1	.0	-.2	.0	.0	.0	.9	8.4	.6	6.9
16.0	7.1	.0	.0	-.1	.0	-.2	.0	.0	.0	.8	7.9	.6	6.5
17.0	6.7	.0	.0	.0	.1	-.1	.0	.0	.0	1.1	7.4	.6	5.7
18.0	4.8	.0	.0	.0	.1	-.1	.0	.0	.0	1.3	6.1	.4	4.4
19.0	3.6	.0	.0	.0	.1	-.1	.0	.0	.0	1.0	4.5	.5	3.1
20.0	2.9	.0	.0	.0	.1	.0	.0	.0	.0	.9	3.7	.6	2.3
21.0	2.3	.0	.0	.1	.1	.0	.0	.0	.0	.8	3.1	.6	1.7
22.0	1.7	.0	.0	.1	.1	.0	.0	.0	.0	.8	2.4	1.3	.4
23.0	1.1	.0	.0	.1	.1	.0	.0	.0	.0	.8	1.8	1.4	-.4
24.0	.4	.0	.0	.1	.0	.0	.0	.0	.0	.9	1.3	1.3	-.9
25.0	-.2	.1	.0	.1	.0	.1	.0	.0	.0	.6	.6	1.1	-1.4
26.0	-.9	.1	.1	.1	.0	.1	.0	.0	.0	.9	.0	1.1	-2.0
27.0	-1.6	.2	.1	.1	.0	.1	.0	.0	.0	1.0	-.6	.8	-2.4
28.0	-2.1	.2	.1	.1	.0	.1	.0	.0	.0	.9	-1.2	.7	-2.7
29.0	-2.3	.3	.2	.0	.0	.1	.0	.0	.0	.8	-1.4	.7	-3.0
30.0	-2.3	.3	.2	.0	.0	.1	.0	.0	.0	.9	-1.4	.8	-3.1
31.0	-2.3	.4	.2	.0	.0	.1	.0	.0	.0	.9	-1.4	.9	-3.1
32.0	-2.3	.4	.2	.0	.0	.1	.0	.0	.0	.9	-1.4	.9	-3.1
33.0	-2.3	.4	.2	.0	.0	.1	.0	.0	.0	.8	-1.5	.9	-3.2
34.0	-2.4	.4	.2	.0	.0	.1	.0	.0	.0	.9	-1.5	1.3	-3.7
35.0	-2.5	.4	.2	.0	.0	.1	.0	.0	.0	.9	-1.6	1.8	-4.3
36.0	-2.6	.4	.2	.0	.0	.1	.0	.0	.0	.9	-1.7	2.3	-4.8
37.0	-2.6	.4	.2	.0	.0	.1	.0	.0	.0	.8	-1.7	2.5	-5.1
38.0	-2.7	.4	.1	.0	.0	.1	.0	.0	.0	.8	-1.9	2.3	-5.0
39.0	-2.8	.3	.1	.0	.0	.1	.0	.0	.0	.7	-2.1	1.9	-4.7
40.0	-2.9	.3	.1	.0	.0	.0	.0	.0	.0	.7	-2.3	1.5	-4.5
41.0	-3.0	.3	.1	.0	.0	.0	.0	.0	.0	.6	-2.3	1.3	-4.2
42.0	-3.0	.3	.1	.0	.0	.0	.0	.0	.0	.6	-2.4	1.0	-4.0
43.0	-3.1	.2	.1	.0	.0	.1	.0	.0	.0	.6	-2.4	.7	-3.8
44.0	-3.2	.2	.1	.0	.0	.1	.0	.0	.0	.7	-2.5	.6	-3.8
45.0	-3.3	.2	.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
46.0	-3.3	.2	.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
47.0	-3.2	.2	.1	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
48.0	-3.2	.2	.1	.0	.0	.0	.0	.0	.0	.7	-2.5	.8	-4.0
49.0	-3.2	.0	.1	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9

GN/C

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	-3.7	.0	.0	.0	.0	-.7	.0	.0	.0	.9	-2.9	.9	-4.6
2.0	3.0	.0	.0	.0	.0	.1	.0	.0	.0	.4	3.4	.3	2.7
3.0	4.8	.0	.0	.0	.0	.3	.0	.0	.0	.6	5.4	.6	4.2
4.0	5.4	.0	.0	.0	.0	.4	.0	.0	.0	.8	6.2	.7	4.7
5.0	5.8	.0	.0	.0	.0	.4	.0	.0	.0	.8	6.6	.8	5.0
6.0	5.9	.0	.0	.0	.0	.4	.0	.0	.0	.9	6.8	.8	5.1
7.0	6.0	.0	.0	.0	.0	.4	.0	.0	.0	.9	6.8	.8	5.2
8.0	6.5	.0	.0	.0	.0	.4	.0	.0	.0	.7	7.2	.8	5.7
9.0	7.5	.0	.0	.0	.0	.5	.0	.0	.0	.7	8.2	.9	6.6
10.0	8.3	.0	.0	.0	.0	.4	.0	.0	.0	.8	9.0	.9	7.4
11.0	8.6	.0	.0	.1	.0	.4	.0	.0	.0	.8	9.4	.9	7.7
12.0	8.5	.0	.0	.1	.0	.4	.0	.0	.0	.9	9.4	.8	7.7
13.0	8.3	.0	.0	.1	.0	.3	.0	.0	.0	.9	9.2	.8	7.5
14.0	7.9	.0	.0	.1	.0	.3	.0	.0	.0	.9	8.8	.7	7.2
15.0	7.5	.0	.0	.1	.0	.2	.0	.0	.0	.9	8.4	.6	6.9
16.0	7.1	.0	.0	.1	.0	.2	.0	.0	.0	.8	7.9	.6	6.5
17.0	6.3	.0	.0	.0	-.1	.1	.0	.0	.0	1.1	7.4	.6	5.7
18.0	4.8	.0	.0	.0	-.1	.1	.0	.0	.0	1.3	6.1	.4	4.4
19.0	3.6	.0	.0	.0	-.1	.1	.0	.0	.0	1.0	4.5	.5	3.1
20.0	2.9	.0	.0	.0	-.1	.0	.0	.0	.0	.9	3.7	.6	2.3
21.0	2.3	.0	.0	-.1	-.1	.0	.0	.0	.0	.8	3.1	.6	1.7
22.0	1.7	.0	.0	-.1	-.1	.0	.0	.0	.0	.8	2.4	1.3	.4
23.0	1.0	.0	.0	-.1	-.1	.0	.0	.0	.0	.8	1.8	1.4	-.4
24.0	.4	.0	.0	-.1	.0	.0	.0	.0	.0	.9	1.3	1.3	-.9
25.0	-.5	-.1	.0	-.1	.0	.0	.0	.0	.0	.9	.6	1.1	-1.4
26.0	-.9	-.1	-.1	-.1	.0	-.1	.0	.0	.0	.9	.0	1.1	-2.0
27.0	-1.6	-.2	-.1	-.1	.0	-.1	.0	.0	.0	1.0	-.6	.8	-2.4
28.0	-2.1	-.2	-.1	-.1	.0	-.1	.0	.0	.0	.9	-1.2	.7	-2.7
29.0	-2.3	-.3	-.2	.0	.0	-.1	.0	.0	.0	.8	-1.4	.7	-3.0
30.0	-2.3	-.3	-.2	.0	.0	-.1	.0	.0	.0	.9	-1.4	.8	-3.1
31.0	-2.3	-.4	-.2	.0	.0	-.1	.0	.0	.0	.9	-1.4	.9	-3.1
32.0	-2.3	-.4	-.2	.0	.0	-.1	.0	.0	.0	.8	-1.4	.9	-3.1
33.0	-2.3	-.4	-.2	.0	.0	-.1	.0	.0	.0	.8	-1.5	.9	-3.2
34.0	-2.4	-.4	-.2	.0	.0	-.1	.0	.0	.0	.9	-1.5	1.3	-3.7
35.0	-2.5	-.4	-.2	.0	.0	-.1	.0	.0	.0	.9	-1.6	1.8	-4.3
36.0	-2.6	-.4	-.2	.0	.0	-.1	.0	.0	.0	.9	-1.7	2.3	-4.8
37.0	-2.6	-.4	-.2	.0	.0	-.1	.0	.0	.0	.8	-1.7	2.5	-5.1
38.0	-2.7	-.4	-.1	.0	.0	-.1	.0	.0	.0	.8	-1.9	2.3	-5.0
39.0	-2.8	-.3	-.1	.0	.0	-.1	.0	.0	.0	.7	-2.1	1.9	-4.7
40.0	-2.9	-.3	-.1	.0	.0	.0	.0	.0	.0	.7	-2.3	1.5	-4.5
41.0	-3.0	-.3	-.1	.0	.0	.0	.0	.0	.0	.6	-2.3	1.3	-4.2
42.0	-3.0	-.3	-.1	.0	.0	.0	.0	.0	.0	.6	-2.4	1.0	-4.0
43.0	-3.1	-.2	-.1	.0	.0	-.1	.0	.0	.0	.6	-2.4	.7	-3.8
44.0	-3.2	-.2	-.1	.0	.0	-.1	.0	.0	.0	.7	-2.5	.6	-3.8
45.0	-3.3	-.2	-.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
46.0	-3.3	-.2	-.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
47.0	-3.2	-.2	-.1	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
48.0	-3.2	-.2	-.1	.0	.0	.0	.0	.0	.0	.7	-2.5	.8	-4.0
49.0	-3.2	-.2	-.1	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9

GN/C

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	-3.2	.2	.1	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
51.0	-3.3	.2	.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
52.0	-3.3	.2	.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
53.0	-3.3	.2	.1	.0	.0	.0	.0	.0	.1	.7	-2.6	.7	-3.9
54.0	-3.2	.1	.1	.0	.0	.1	.0	.0	.0	.7	-2.5	.7	-3.9
55.0	-3.2	.1	.1	.0	.0	.1	.0	.0	.0	.7	-2.6	.7	-3.9
56.0	-3.3	.1	.1	.0	.0	.1	.0	.0	.0	.7	-2.6	.6	-3.9
57.0	-3.3	.1	.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
58.0	-3.3	.1	.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
59.0	-3.2	.1	.1	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
60.0	-3.1	.1	.1	.0	.0	.0	.0	.0	.0	.8	-2.3	.8	-3.9
61.0	-2.9	.1	.1	.0	.0	.0	.0	.0	.0	.9	-2.0	.9	-3.8
62.0	-2.6	.1	.2	.0	.0	.0	.0	.0	.0	1.0	-1.6	1.2	-3.8
63.0	-2.4	.1	.1	.0	.0	.0	.0	.0	.0	1.0	-1.2	1.4	-3.6
64.0	-1.9	.0	.1	.0	.0	.0	.0	.0	.0	1.0	-.8	1.5	-3.4
65.0	-1.5	.0	.1	.0	.0	.0	.0	.0	.0	1.1	-.4	1.5	-3.0
66.0	-1.2	.0	.1	.0	.0	.0	.0	.0	.0	1.1	-.1	1.5	-2.6
67.0	-.8	.0	.1	.0	.0	.0	.0	.0	.0	1.0	.2	1.4	-2.3
68.0	-.5	-.1	.1	.0	.0	.0	.0	.0	.0	1.4	.9	1.4	-1.9
69.0	-.1	-.2	.0	.1	.0	.1	.0	.0	.0	1.6	1.5	1.6	-1.7
70.0	.7	-.2	.0	.1	.0	.1	.0	.0	.0	.8	1.5	2.2	-1.5
71.0	.7	.0	.2	.0	.0	.0	.0	.0	.0	.6	1.3	1.6	-.8
72.0	.5	-.1	.1	.0	.0	.0	.0	.0	.0	1.1	1.5	.6	-.1
73.0	.5	-.3	.0	.1	.0	.1	.0	.0	.0	1.5	2.0	.8	-.3
74.0	.8	-.4	.0	.1	.0	.1	.0	.0	.0	1.6	2.4	1.2	-.4
75.0	1.2	-.4	.0	.1	.0	.1	.0	.0	.0	1.5	2.7	1.6	-.4
76.0	1.5	-.4	.0	.1	.0	.1	.0	.0	.0	1.5	3.0	1.6	-.1
77.0	1.8	-.4	.0	.1	.0	.1	.0	.0	.0	1.5	3.2	1.6	.2
78.0	2.0	-.5	-.1	.1	.0	.1	.0	.0	.0	1.3	3.4	1.6	.4
79.0	2.2	-.6	-.2	.1	.0	.1	.0	.0	.0	1.2	3.4	1.6	.6
80.0	2.3	-.7	-.2	.1	.0	.1	.0	.0	.0	1.3	3.4	1.4	.8
81.0	2.4	-.7	-.3	.1	.0	.1	.0	.0	.0	1.4	3.5	1.2	.8
82.0	2.5	-.8	-.4	.1	.0	.1	.0	.0	.0	1.6	3.5	1.3	.7
83.0	1.9	-.8	-.4	.1	.0	.1	.0	.0	.0	1.7	3.7	1.4	.5
84.0	2.0	-.9	-.5	.1	.0	.1	.0	.0	.0	1.8	3.7	1.6	.4
85.0	2.0	-1.0	-.6	.1	.0	.1	.0	.0	.0	1.8	3.8	1.7	.3
86.0	2.0	-1.0	-.6	.1	.0	.1	.0	.0	.0	1.8	3.8	1.8	.2
87.0	2.0	-1.0	-.7	.1	.0	.1	.0	.0	.0	1.9	3.9	1.8	.2
88.0	2.0	-.9	-.7	.1	.0	.1	.0	.0	.0	1.9	3.9	1.8	.2
89.0	2.1	-.9	-.7	.1	.0	.1	.0	.0	.0	1.9	4.0	1.9	.2
90.0	2.2	-.9	-.7	.1	.0	.1	.0	.0	.0	1.8	4.0	1.9	.3
91.0	2.2	-.9	-.7	.1	.0	.1	.0	.0	.0	1.8	4.0	1.8	.3
92.0	2.2	-.9	-.6	.1	.0	.1	.0	.0	.0	1.8	4.0	1.8	.4
93.0	2.2	-.9	-.6	.1	.0	.1	.0	.0	.0	1.8	4.0	1.7	.4
94.0	2.2	-.9	-.6	.1	.0	.1	.0	.0	.0	1.8	4.0	1.7	.5
95.0	2.2	-.9	-.6	.1	.0	.1	.0	.0	.0	1.8	4.0	1.7	.5
96.0	2.2	-.8	-.6	.1	.0	.1	.0	.0	.0	1.8	4.0	1.7	.5
97.0	2.2	-.8	-.6	.1	.0	.1	.0	.0	.0	1.8	4.0	1.7	.5
98.0	2.2	-.8	-.6	.1	.0	.1	.0	.0	.0	1.8	4.0	1.7	.6
99.0	2.3	-.8	-.6	.1	.0	.1	.0	.0	.0	1.7	4.0	1.7	.6

GN/C

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	-3.2	-.2	-.1	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
51.0	-3.3	-.2	-.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
52.0	-3.3	-.2	-.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
53.0	-3.3	-.2	-.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.7	-3.9
54.0	-3.2	-.2	-.1	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
55.0	-3.2	-.1	-.1	.0	.0	-.1	.0	.0	.0	.7	-2.6	.7	-3.9
56.0	-3.3	-.1	-.1	.0	.0	-.1	.0	.0	.0	.7	-2.6	.6	-3.9
57.0	-3.3	-.1	-.1	.0	.0	.0	.0	.0	.0	.7	-2.6	.6	-3.9
58.0	-3.3	-.1	-.1	.0	.0	-.1	.0	.0	.0	.7	-2.6	.6	-3.9
59.0	-3.2	-.1	-.1	.0	.0	.0	.0	.0	.0	.7	-2.5	.7	-3.9
60.0	-3.1	-.1	-.1	.0	.0	.0	.0	.0	.0	.8	-2.3	.8	-3.9
61.0	-2.9	-.1	-.1	.0	.0	.0	.0	.0	.0	.9	-2.0	.9	-3.8
62.0	-2.6	-.1	-.2	.0	.0	.0	.0	.0	.0	1.0	-1.6	1.2	-3.8
63.0	-2.3	-.1	-.2	.0	.0	.1	.0	.0	.0	1.0	-1.2	1.4	-3.6
64.0	-1.9	.0	-.1	.0	.0	.0	.0	.0	.0	1.0	-.8	1.5	-3.4
65.0	-1.5	.0	-.1	.0	.0	.0	.0	.0	.0	1.1	-.4	1.5	-3.0
66.0	-1.2	.0	-.1	.0	.0	.0	.0	.0	.0	1.1	-.1	1.5	-2.6
67.0	-.8	.0	-.1	.0	.0	.0	.0	.0	.0	1.0	.2	1.4	-2.3
68.0	-.5	.0	-.2	.0	.0	-.1	.0	.0	.0	1.4	.9	1.4	-1.9
69.0	-.1	.3	.0	-.1	.0	-.1	.0	.0	.0	1.6	1.5	1.6	-1.7
70.0	.7	.1	-.1	-.1	.0	-.1	.0	.0	.0	.8	1.5	2.2	-1.5
71.0	.7	.0	-.2	.0	.0	.0	.0	.0	.0	.6	1.3	1.6	-.8
72.0	.8	.1	-.1	.0	.0	.0	.0	.0	.0	1.1	1.5	.6	-.1
73.0	.8	.3	.0	-.1	.0	-.1	.0	.0	.0	1.5	2.0	.8	-.3
74.0	.8	.4	.0	-.1	.0	-.1	.0	.0	.0	1.6	2.4	1.2	-.4
75.0	1.2	.4	.0	-.1	.0	-.1	.0	.0	.0	1.5	2.7	1.6	-.4
76.0	1.5	.4	.0	-.1	.0	-.1	.0	.0	.0	1.5	3.0	1.6	-.1
77.0	1.8	.4	.0	-.1	.0	-.1	.0	.0	.0	1.5	3.2	1.6	.2
78.0	2.0	.5	.1	-.1	.0	-.1	.0	.0	.0	1.3	3.4	1.6	.4
79.0	2.2	.5	.1	-.1	.0	-.1	.0	.0	.0	1.2	3.4	1.6	.6
80.0	2.3	.6	.2	-.1	.0	-.1	.0	.0	.0	1.2	3.4	1.4	.8
81.0	2.3	.7	.2	-.1	.0	-.1	.0	.0	.0	1.4	3.5	1.2	.8
82.0	2.0	.7	.3	-.1	.0	-.1	.0	.0	.0	1.6	3.5	1.3	.7
83.0	1.9	.8	.4	-.1	.0	-.1	.0	.0	.0	1.7	3.7	1.4	.5
84.0	2.0	.8	.5	-.2	.0	-.1	.0	.0	.0	1.8	3.7	1.6	.4
85.0	2.0	.9	.5	-.2	.0	-.1	.0	.0	.0	1.8	3.8	1.7	.3
86.0	2.0	.9	.6	-.2	.0	-.1	.0	.0	.0	1.8	3.8	1.8	.2
87.0	2.0	.9	.6	-.2	.0	-.1	.0	.0	.1	1.9	3.9	1.8	.2
88.0	2.0	.9	.6	-.2	.0	-.1	.1	.0	.0	1.9	3.9	1.8	.2
89.0	2.1	.9	.6	-.1	.0	-.1	.0	.0	.0	1.9	4.0	1.9	.2
90.0	2.2	.9	.6	-.1	.0	-.1	.0	.0	.0	1.8	4.0	1.9	.3
91.0	2.2	.9	.6	-.1	.0	-.1	.0	.0	.0	1.8	4.0	1.8	.3
92.0	2.2	.9	.6	-.1	.0	-.1	.0	.0	.0	1.8	4.0	1.8	.4
93.0	2.2	.9	.6	-.1	.0	-.1	.0	.0	.0	1.8	4.0	1.7	.4
94.0	2.2	.9	.6	-.1	.0	-.1	.0	.0	.0	1.8	4.0	1.7	.5
95.0	2.2	.9	.6	-.1	.0	-.1	.0	.0	.0	1.8	4.0	1.7	.5
96.0	2.2	.8	.6	-.1	.0	-.1	.0	.0	.0	1.8	4.0	1.7	.5
97.0	2.2	.9	.6	-.1	.0	-.1	.0	.0	.0	1.8	4.0	1.7	.5
98.0	2.2	.8	.6	-.1	.0	-.1	.0	.0	.0	1.8	4.0	1.7	.6
99.0	2.2	.8	.6	-.1	.0	-.1	.1	.0	.0	1.7	4.0	1.7	.6

GN/C

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	2.3	-.9	-.6	.1	.0	.1	.0	.0	.0	1.7	4.0	1.7	.6
101.0	2.3	-.8	-.6	.1	.0	.1	.0	.0	.0	1.7	4.0	1.6	.6
102.0	2.2	-.8	-.6	.1	.0	.1	.0	.0	.0	1.7	3.9	1.6	.7
103.0	2.2	-.8	-.5	.1	.0	.1	.0	.0	.0	1.7	3.9	1.6	.7
104.0	2.2	-.8	-.5	.1	.0	.1	.0	.0	.0	1.7	3.9	1.5	.6
105.0	2.2	-.7	-.5	.1	.0	.1	.0	.0	.0	1.7	3.8	1.5	.6
106.0	2.2	-.7	-.5	.1	.0	.1	.0	.0	.0	1.6	3.8	1.5	.6
107.0	2.2	-.7	-.5	.1	.0	.1	.0	.0	.0	1.6	3.8	1.5	.6
108.0	2.2	-.7	-.5	.1	.0	.1	.0	.0	.0	1.6	3.8	1.6	.6
109.0	2.2	-.7	-.5	.1	.0	.1	.0	.0	.0	1.8	4.0	1.5	.6
110.0	2.3	-.5	-.4	.1	.0	.0	.0	.0	.0	1.8	4.2	1.6	.8
111.0	2.4	-.5	-.3	.0	.0	.0	.0	.0	.0	1.6	4.4	2.0	.8
112.0	3.2	-.5	-.3	.0	.0	.0	.0	.0	.0	1.5	4.7	2.3	.9
113.0	3.5	-.5	-.3	.0	.0	.0	.0	.0	.0	1.5	5.0	2.4	1.1
114.0	3.8	-.5	-.3	.0	.0	.0	.0	.0	.0	1.4	5.2	2.3	1.5
115.0	4.1	-.5	-.3	-.1	.0	.0	.0	.0	.0	1.3	5.3	2.1	2.0
116.0	4.2	-.5	-.3	-.1	.0	.0	.0	.0	.0	1.3	5.5	1.9	2.3
117.0	4.2	-.5	-.4	-.1	.0	.0	.0	.0	.0	1.3	5.5	1.8	2.4
118.0	4.1	-.5	-.3	-.1	.0	.0	.0	.0	.0	1.3	5.4	1.6	2.4
119.0	3.9	-.5	-.3	-.1	.0	.0	.0	.0	.0	1.4	5.2	1.5	2.3
120.0	3.6	-.5	-.3	-.1	.0	.0	.0	.0	.0	1.4	5.0	1.6	2.0
121.0	3.3	-.4	-.3	-.1	.0	.0	.0	.0	.0	1.5	4.8	1.6	1.7
122.0	3.2	-.3	-.3	-.1	.0	.0	.0	.0	.0	1.6	4.8	1.6	1.5
123.0	2.9	-.3	-.3	-.1	.0	.0	.0	.0	.0	1.6	4.6	1.6	1.3
124.0	2.7	-.3	-.3	-.1	.0	.0	.0	.0	.0	1.6	4.3	1.6	1.0
125.0	2.4	-.3	-.3	-.1	.0	.0	.0	.0	.0	1.6	4.0	1.6	.8
126.0	2.2	-.3	-.3	-.1	.0	.0	.0	.0	.0	1.6	3.7	1.6	.5
127.0	1.9	-.3	-.3	-.1	.0	.0	.0	.0	.0	2.1	4.0	1.5	.3
128.0	1.6	-.3	-.3	-.1	.0	.0	.0	.0	.0	4.3	5.9	1.5	.1
129.0	1.4	-.3	-.3	-.1	.0	.0	.0	.0	.0	5.9	7.2	1.5	-.2
130.0	1.7	-.3	-.3	-.1	.0	.0	.0	.0	.0	5.6	7.2	1.7	.0
140.0	5.5	-1.5	-1.5	.3	-.1	.9	.0	.0	.0	3.3	9.1	3.4	2.4
150.0	4.3	-1.3	-.9	.3	-.1	.8	.0	.0	.0	3.2	7.2	3.1	.9
160.0	2.3	-1.2	-.9	.3	-.1	.7	.0	.0	.0	2.9	5.2	2.9	-.6
170.0	.8	-1.1	-.8	.2	-.1	.6	.0	.0	.0	2.7	3.5	2.7	-1.9
180.0	-.6	-1.0	-.7	.2	-.1	.6	.0	.0	.0	2.5	1.9	2.5	-3.1
190.0	-1.7	-.9	-.7	.2	-.1	.5	.0	.0	.0	2.3	.6	2.3	-4.0
200.0	-2.6	-.9	-.6	.2	.0	.5	.0	.0	.0	2.1	-.5	2.2	-4.8
210.0	-3.4	-.8	-.6	.2	.0	.5	.0	.0	.0	1.9	-1.5	2.0	-5.4
220.0	-4.0	-.7	-.5	.1	.0	.4	.0	.0	.0	1.7	-2.2	1.9	-5.8
230.0	-4.4	-.7	-.5	.1	.0	.4	.0	.0	.0	1.6	-2.8	1.7	-6.2
240.0	-4.8	-.6	-.4	.1	.0	.4	.0	.0	.0	1.5	-3.3	1.6	-6.4
250.0	-5.0	-.5	-.4	.1	.0	.3	.0	.0	.0	1.3	-3.6	1.5	-6.4
260.0	-5.0	-.5	-.3	.1	.0	.3	.0	.0	.0	1.2	-3.8	1.4	-6.4
270.0	-5.0	-.4	-.3	.1	.0	.3	.0	.0	.0	1.1	-4.0	1.3	-6.3
280.0	-4.9	-.4	-.3	.1	.0	.2	.0	.0	.0	1.0	-3.9	1.2	-6.1
290.0	-4.7	-.3	-.2	.1	.0	.2	.0	.0	.0	.9	-3.8	1.0	-5.7
300.0	-4.4	-.3	-.2	.1	.0	.2	.0	.0	.0	.7	-3.7	.9	-5.4
310.0	-4.1	-.2	-.2	.0	.0	.1	.0	.0	.0	.6	-3.4	.9	-4.9
320.0	-3.6	-.2	-.1	.0	.0	.1	.0	.0	.0	.6	-3.1	.8	-4.4

GN/C

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
101.0	2.3	.8	.6	-.1	.0	-.1	.0	.0	.0	1.7	4.0	1.7	.6
101.0	2.3	.8	.6	-.1	.0	-.1	.0	.0	.0	1.7	4.0	1.6	.6
102.0	2.2	.8	.6	-.1	.0	-.1	.0	.0	.0	1.7	3.9	1.6	.7
103.0	2.2	.8	.6	-.1	.0	-.1	.0	.0	.0	1.7	3.9	1.6	.7
104.0	2.2	.8	.6	-.1	.0	-.1	.0	.0	.0	1.7	3.9	1.5	.6
105.0	2.2	.8	.6	-.1	.0	-.1	.0	.0	.0	1.7	3.8	1.5	.6
106.0	2.2	.8	.5	-.1	.0	-.1	.0	.0	.0	1.6	3.8	1.5	.6
107.0	2.2	.7	.5	-.1	.0	-.1	.0	.0	.0	1.6	3.8	1.5	.6
108.0	2.2	.7	.5	-.1	.0	-.1	.0	.0	.0	1.6	3.8	1.6	.6
109.0	2.2	.7	.5	-.1	.0	-.1	.0	.0	.0	1.8	4.0	1.5	.6
110.0	2.3	.6	.4	-.1	.0	.0	.0	.0	.0	1.8	4.2	1.6	.8
111.0	2.6	.5	.4	.0	.0	.0	.0	.0	.0	1.6	4.4	2.0	.8
112.0	3.2	.5	.4	.0	.0	.0	.0	.0	.0	1.5	4.7	2.3	.9
113.0	3.6	.5	.4	.0	.0	.0	.0	.0	.0	1.5	5.0	2.4	1.1
114.0	3.8	.5	.4	.0	.0	.0	.0	.0	.0	1.4	5.2	2.3	1.5
115.0	4.1	.5	.4	.1	.0	.0	.0	.0	.0	1.3	5.3	2.1	2.0
116.0	4.2	.5	.4	.1	.0	.0	.0	.0	.0	1.3	5.5	1.9	2.3
117.0	4.2	.5	.4	.1	.0	.0	.0	.0	.0	1.3	5.5	1.8	2.4
118.0	4.0	.5	.4	.1	.0	.0	.0	.0	.0	1.3	5.4	1.6	2.4
119.0	3.8	.5	.4	.1	.0	.0	.0	.0	.0	1.4	5.2	1.5	2.3
120.0	3.6	.5	.4	.1	.0	.0	.0	.0	.0	1.4	5.0	1.6	2.0
121.0	3.3	.5	.4	.1	.0	.0	.0	.0	.0	1.5	4.8	1.6	1.7
122.0	3.2	.5	.4	.1	.0	.0	.0	.0	.0	1.6	4.8	1.6	1.5
123.0	2.9	.5	.4	.1	.0	.0	.0	.0	.0	1.6	4.6	1.6	1.3
124.0	2.7	.5	.4	.1	.0	.0	.0	.0	.0	1.6	4.3	1.6	1.0
125.0	2.4	.5	.4	.1	.0	.0	.0	.0	.0	1.6	4.0	1.6	.8
126.0	2.2	.5	.4	.1	.0	.0	.0	.0	.0	1.6	3.7	1.6	.5
127.0	1.9	.5	.4	.1	.0	.0	.0	.0	.0	2.1	4.0	1.5	.3
128.0	1.6	.5	.4	.1	.0	.0	.0	.0	.0	4.3	5.9	1.5	.1
129.0	1.4	.5	.4	.1	.0	.0	.0	.0	.0	5.9	7.2	1.5	-.2
130.0	1.7	.5	.4	.1	.0	.0	.0	.0	.0	5.6	7.2	1.7	.0
140.0	5.6	1.2	1.2	-.3	.1	-.8	.0	.0	.0	3.3	9.1	3.4	2.4
150.0	4.2	1.5	1.1	-.3	.1	-.7	.0	.0	.0	3.2	7.2	3.1	.9
160.0	2.3	1.4	1.0	-.3	.1	-.7	.0	.0	.0	2.9	5.2	2.9	-.6
170.0	.2	1.3	.9	-.2	.1	-.6	.0	.0	.0	2.7	3.5	2.7	-1.9
180.0	-.6	1.2	.9	-.2	.1	-.6	.0	.0	.0	2.5	1.9	2.5	-3.1
190.0	-1.7	1.1	.8	-.2	.1	-.5	.0	.0	.0	2.3	.6	2.3	-4.0
200.0	-2.6	1.0	.7	-.2	.0	-.5	.0	.0	.0	2.1	-.5	2.2	-4.8
210.0	-3.4	.9	.7	-.2	.0	-.4	.0	.0	.0	1.9	-1.5	2.0	-5.4
220.0	-4.1	.8	.6	-.1	.0	-.4	.0	.0	.0	1.7	-2.2	1.9	-5.8
230.0	-4.4	.8	.5	-.1	.0	-.4	.0	.0	.0	1.6	-2.8	1.7	-6.2
240.0	-4.2	.7	.5	-.1	.0	-.3	.0	.0	.0	1.5	-3.3	1.6	-6.4
250.0	-5.1	.6	.4	-.1	.0	-.3	.0	.0	.0	1.3	-3.6	1.5	-6.4
260.0	-5.3	.6	.4	-.1	.0	-.3	.0	.0	.0	1.2	-3.8	1.4	-6.4
270.0	-5.	.5	.3	-.1	.0	-.2	.0	.0	.0	1.1	-4.0	1.3	-6.3
280.0	-4.9	.4	.3	-.1	.0	-.2	.0	.0	.0	1.0	-3.9	1.2	-6.1
290.0	-4.7	.4	.3	-.1	.0	-.2	.0	.0	.0	.9	-3.8	1.0	-5.7
300.0	-4.4	.3	.2	-.1	.0	-.2	.0	.0	.0	.7	-3.7	.9	-5.4
310.0	-4.1	.3	.2	.0	.0	-.1	.0	.0	.0	.6	-3.4	.9	-4.9
320.0	-3.8	.2	.1	.0	.0	-.1	.0	.0	.0	.6	-3.1	.8	-4.4

GN/C

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-3.2	-.1	-.1	.0	.0	.1	.0	.0	.0	.5	-2.7	.7	-3.9
340.0	-2.6	-.1	-.1	.0	.0	.1	.0	.0	.0	.4	-2.2	.7	-3.3
350.0	-2.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	-1.7	.7	-2.7
360.0	-1.4	.0	.0	.0	.0	.0	.0	.0	.0	.3	-1.1	.7	-2.1
370.0	-.9	.1	.0	.0	.0	.0	.0	.0	.0	.3	-.5	.7	-1.5
380.0	-.1	.1	.1	.0	.0	.0	.0	.0	.0	.4	.2	.7	-.8
390.0	.6	.2	.1	.0	.0	-.1	.0	.0	.0	.4	1.0	.8	-.2
400.0	1.2	.2	.1	.0	.0	-.1	.0	.0	.0	.7	1.9	.9	.4
410.0	1.9	.2	.2	.0	.0	-.1	.0	.0	.0	1.2	3.1	.9	1.0
420.0	2.6	.3	.2	-.1	.0	-.1	.0	.0	.0	1.3	3.9	1.1	1.5
430.0	3.1	.3	.2	-.1	.0	-.2	.0	.0	.0	1.2	4.3	1.1	2.0
440.0	3.6	.4	.3	-.1	.0	-.2	.0	.0	-.1	1.0	4.6	1.2	2.4
450.0	4.0	.4	.3	-.1	.0	-.2	.0	.0	-.1	1.0	5.0	1.4	2.6
460.0	4.1	.5	.3	-.1	.0	-.2	.0	.0	-.1	1.2	5.3	1.8	2.3
470.0	4.0	.5	.3	-.1	.0	-.3	.0	.0	-.1	1.4	5.4	1.9	2.1

GN/C

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-3.2	.1	.1	.0	.0	-.1	.0	.0	.0	.5	-2.7	.7	-3.9
340.0	-2.6	.1	.1	.0	.0	-.1	.0	.0	.0	.4	-2.2	.7	-3.3
350.0	-2.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	-1.7	.7	-2.7
360.0	-1.4	.0	.0	.0	.0	.0	.0	.0	.0	.3	-1.1	.7	-2.1
370.0	-.8	-.1	-.1	.0	.0	.0	.0	.0	.0	.3	-.5	.7	-1.5
380.0	-.1	-.1	-.1	.0	.0	.0	.0	.0	.0	.4	.2	.7	-.8
390.0	.6	-.2	-.1	.0	.0	.1	.0	.0	.0	.4	1.0	.8	-.2
400.0	1.2	-.2	-.2	.0	.0	.1	.0	.0	.0	.7	1.9	.9	.4
410.0	1.9	-.3	-.2	.0	.0	.1	.0	.0	.0	1.2	3.1	.9	1.0
420.0	2.6	-.3	-.2	.1	.0	.1	.0	.0	.0	1.3	3.9	1.1	1.5
430.0	3.1	-.4	-.3	.1	.0	.2	.0	.0	.0	1.2	4.3	1.1	2.0
440.0	3.6	-.4	-.3	.1	.0	.2	.0	.0	.1	1.0	4.6	1.2	2.4
450.0	4.0	-.5	-.3	.1	.0	.2	.0	.0	.1	1.0	5.0	1.4	2.6
460.0	4.1	-.5	-.3	.1	.0	.2	.0	.0	.1	1.2	5.3	1.8	2.3
470.0	4.0	-.5	-.4	.1	.0	.3	.0	.0	.1	1.4	5.4	1.9	2.1

PROPULSION

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	8.6	.8	.0	-.1	-.1	.1	.0	.4	.0	.0	.0	.1	1.0	9.6	.7	7.9
2.0	3.6	.3	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.5	4.1	.3	3.3
3.0	2.2	.2	.0	.0	.3	.2	.0	-.2	.0	.0	.0	.0	.5	2.8	.3	1.9
4.0	1.6	.1	.0	.0	.4	.2	.0	-.4	.0	.0	.0	.0	.6	2.3	.4	1.2
5.0	1.2	.1	.0	.0	.5	.2	.0	-.5	.0	.0	.0	-.1	.7	1.9	.5	.7
6.0	1.0	.1	.0	.0	.6	.2	.0	-.5	.0	.0	.0	-.1	.7	1.7	.6	.4
7.0	.8	.1	.0	.0	.6	.2	.0	-.6	.0	.0	.0	-.1	.7	1.5	.6	.2
8.0	.4	.2	.0	.0	.6	.2	.0	-.6	.0	.0	.0	-.1	.8	1.2	.6	-.2
9.0	.1	.1	.0	.0	.6	.2	.1	-.6	.0	.0	.0	-.1	.8	.9	.6	-.5
10.0	.4	.0	.0	.0	.5	.2	.2	-.5	.0	.0	.1	-.1	.7	1.1	.7	-.3
11.0	.6	.1	.0	.0	.4	.3	.4	-.5	.0	.0	.1	.0	.8	1.4	.7	-.1
12.0	.9	.2	.0	.0	.3	.1	.5	-.4	.0	.0	.1	.0	.9	1.7	.8	.1
13.0	.9	.3	.0	-.1	.2	.1	.5	-.3	.0	.0	.2	.0	.9	1.9	.8	.1
14.0	.9	.4	.0	-.1	.2	.1	.6	-.2	.0	.0	.2	.0	1.0	1.9	.8	.1
15.0	.8	.5	.0	.0	.1	.0	.6	-.1	.0	.0	.2	.0	1.0	1.8	.9	-.1
16.0	.5	.6	.0	.0	.0	.0	.6	.0	.0	.0	.2	.0	1.0	1.5	.9	-.4
17.0	.2	.5	.0	.0	.0	.0	.6	.0	.0	.0	.2	.0	1.0	1.2	.8	-.6
18.0	.1	.4	.0	.0	.1	.0	.6	.0	.0	.0	.2	.0	.9	.9	.8	-.8
19.0	.1	.3	.0	.0	.1	.0	.5	.0	.0	.0	.2	.0	.8	.8	.7	-.6
20.0	.2	.2	.0	.0	.1	.0	.5	-.1	.0	.0	.1	.0	.7	.9	.6	-.4
21.0	.3	.3	.0	.0	.1	.1	.4	-.1	.0	.0	.1	.0	.7	1.0	.6	-.3
22.0	.3	.3	.0	.0	.1	.1	.4	-.1	.0	.0	.1	.0	.7	1.0	.6	-.2
23.0	.3	.3	.0	.0	.1	.1	.4	-.1	.0	.0	.1	.0	.6	1.0	.5	-.2
24.0	.3	.2	.0	.0	.2	.1	.3	-.1	.0	.0	.1	.0	.6	.9	.5	-.2
25.0	.3	.2	.0	.0	.2	.1	.3	-.1	.0	.0	.1	.0	.6	.9	.5	-.1
26.0	.3	.2	.0	.0	.2	.1	.3	-.1	.0	.0	.1	.0	.6	.9	.4	-.1
27.0	.3	.2	.0	.0	.2	.1	.3	-.1	.0	.0	.1	.0	.5	.9	.4	-.1
28.0	.3	.2	.0	.0	.2	.1	.2	-.1	.0	.0	.1	.0	.6	.9	.5	-.2
29.0	.3	.2	.0	.0	.2	.1	.2	-.1	.0	.0	.1	.0	.6	.9	.5	-.2
30.0	.3	.2	.0	.0	.2	.1	.2	.0	.0	.0	.1	.0	.6	.9	.5	-.2
31.0	.3	.2	.0	.0	.2	.1	.2	.0	.0	.0	.0	.0	.7	.9	.6	-.3
32.0	.2	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.7	.9	.6	-.4
33.0	.2	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.7	.9	.7	-.4
34.0	.2	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.7	1.0	.7	-.5
35.0	.2	.1	.0	.0	.0	-.1	.1	.0	.0	.0	.0	.0	.8	1.0	.8	-.5
36.0	.2	.1	.0	.0	.0	-.1	.1	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
37.0	.2	.1	.0	.0	.0	-.2	.1	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
38.0	.2	.1	.0	.0	.0	-.1	.1	.0	.0	.0	.0	.0	.8	1.0	.7	-.5
39.0	.2	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.7	.9	.6	-.5
40.0	.1	.1	.0	.0	.2	.0	.1	.0	.0	.0	.0	.0	.7	.8	.6	-.4
41.0	.2	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.6	.8	.5	-.4
42.0	.2	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3
43.0	.2	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3
44.0	.2	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3
45.0	.2	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3
46.0	.3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.5	.8	.5	-.2
47.0	.3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.6	.8	.5	-.2
48.0	.2	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3
49.0	.2	.2	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3

PROPULSION

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	8.6	-.7	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	1.0	9.6	.7	7.9
2.0	3.6	-.3	.0	.0	.4	-.1	.0	.0	.0	.0	.0	.0	.5	4.1	.3	3.3
3.0	2.3	-.2	.0	.0	.5	-.2	.0	.0	.0	.0	.0	.0	.5	2.8	.3	1.9
4.0	1.6	-.1	.0	.0	.6	-.2	.0	.0	.0	.0	.0	.0	.6	2.3	.4	1.2
5.0	1.2	-.1	.0	.0	.6	-.2	.0	.0	.0	.0	.0	.0	.7	1.9	.5	.7
6.0	1.1	-.1	.0	.0	.6	-.2	.0	.0	.0	.0	.0	.0	.7	1.7	.6	.4
7.0	.8	-.1	.0	.0	.7	-.2	.0	.0	.0	.0	.0	.0	.7	1.5	.6	.2
8.0	.4	-.2	.0	.1	.7	-.2	.0	.0	.1	.0	.0	.0	.8	1.2	.6	-.2
9.0	.1	-.1	.0	.0	.7	-.2	-.1	.0	.0	.0	.0	.0	.8	.9	.6	-.5
10.0	.4	-.1	.0	.0	.6	-.3	-.2	.0	-.1	.0	-.1	.0	.7	1.1	.7	-.3
11.0	.6	-.2	.0	.0	.6	-.2	-.4	.0	-.1	.0	-.1	.0	.8	1.4	.7	-.1
12.0	.9	-.3	.1	.0	.6	-.2	-.5	.0	-.1	.0	-.1	.0	.9	1.7	.8	.1
13.0	.9	-.4	.0	.0	.5	-.1	-.5	.0	-.1	.0	-.2	.0	.9	1.9	.8	.1
14.0	.9	-.4	.0	.1	.5	-.1	-.6	.0	.0	.0	-.2	.0	1.0	1.9	.8	-.1
15.0	.8	-.4	.0	.1	.4	.0	-.6	.0	.0	.0	-.2	.0	1.0	1.8	.9	-.1
16.0	.5	-.4	.0	.1	.3	.0	-.6	.0	.0	.0	-.2	.0	1.0	1.5	.9	-.4
17.0	.2	-.4	.0	.1	.3	.1	-.6	.0	.0	.0	-.2	.0	1.0	1.2	.8	-.6
18.0	.0	-.3	.0	.1	.2	.0	-.5	.0	.0	.0	-.2	.0	.9	.9	.8	-.8
19.0	.1	-.2	.0	.0	.2	.0	-.5	.0	.0	.0	-.2	.0	.8	.8	.7	-.6
20.0	.2	-.2	.0	.0	.2	.0	-.5	.0	.0	.0	-.1	.0	.7	.9	.6	-.4
21.0	.3	-.2	.0	.0	.3	.0	-.4	.0	.0	.0	-.1	.0	.7	1.0	.6	-.3
22.0	.3	-.2	.0	.0	.3	.0	-.4	.0	.0	.0	-.1	.0	.7	1.0	.6	-.2
23.0	.3	-.2	.0	.0	.3	.0	-.4	.0	.0	.0	-.1	.0	.6	1.0	.5	-.2
24.0	.3	-.2	.0	.0	.3	.0	-.3	.0	.0	.0	-.1	.0	.6	.9	.5	-.2
25.0	.3	-.1	.0	.0	.3	.0	-.3	.0	.0	.0	-.1	.0	.6	.9	.5	-.1
26.0	.3	-.1	.0	.0	.3	-.1	-.3	.0	.0	.0	-.1	.0	.6	.9	.4	-.1
27.0	.3	-.1	.0	.0	.3	-.1	-.2	.0	.0	.0	-.1	.0	.5	.9	.4	-.1
28.0	.3	-.1	.0	.0	.3	-.1	-.2	.0	.0	.0	-.1	.0	.6	.9	.5	-.2
29.0	.3	-.1	.0	.0	.3	-.1	-.2	.0	.0	.0	-.1	.0	.6	.9	.5	-.2
30.0	.3	-.1	.0	.0	.3	-.1	-.2	.0	.0	.0	-.1	.0	.6	.9	.5	-.2
31.0	.3	-.1	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.7	.9	.6	-.3
32.0	.3	-.1	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.7	.9	.6	-.4
33.0	.2	-.1	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.7	.9	.7	-.4
34.0	.2	-.2	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.7	1.0	.7	-.5
35.0	.2	-.2	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.8	1.0	.8	-.5
36.0	.2	-.3	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
37.0	.2	-.3	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
38.0	.2	-.2	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.8	1.0	.7	-.5
39.0	.2	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.7	.9	.6	-.5
40.0	.1	.0	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.7	.8	.6	-.4
41.0	.2	.0	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.8	.5	-.4
42.0	.2	.0	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3
43.0	.2	.0	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3
44.0	.2	.0	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3
45.0	.2	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3
46.0	.3	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.5	.8	.5	-.2
47.0	.3	-.2	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.8	.5	-.2
48.0	.2	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3
49.0	.2	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3

PROPULSION

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	.0	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3
51.0	.2	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.6	.8	.6	-.3
52.0	.3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.6	.9	.6	-.3
53.0	.3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.6	.9	.6	-.3
54.0	.3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.6	.9	.6	-.3
55.0	.3	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.7	1.0	.6	-.3
56.0	.2	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.7	.9	.6	-.3
57.0	.2	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.7	.9	.6	-.4
58.0	.2	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.7	.9	.6	-.4
59.0	.2	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.7	.8	.6	-.4
60.0	.2	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.7	.8	.6	-.4
61.0	.2	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.6	.8	.6	-.4
62.0	.2	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3
63.0	.2	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3
64.0	.1	.2	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.6	.8	.5	-.4
65.0	.1	.2	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.6	.7	.5	-.4
66.0	.1	.2	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.6	.7	.5	-.4
67.0	.1	.2	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.6	.6	.6	-.5
68.0	.1	.1	.0	-.1	.1	.0	.1	.0	.0	.0	.0	.0	.5	.6	.8	-.7
69.0	-.4	.5	.0	.0	.1	.3	.6	.5	.0	.0	.0	.0	1.4	.9	.4	-.9
70.0	.4	.1	.0	.2	.1	-.4	.1	.0	.1	.0	.1	.0	.8	.8	.8	-.7
71.0	.6	-.9	.0	.0	.1	-.1	-.4	-.6	.0	.0	.0	.0	.4	1.0	1.3	-.7
72.0	.4	-.3	.0	-.2	.1	.2	-.2	-.4	.0	.0	.0	.0	.8	1.1	1.3	-.6
73.0	-.1	.8	.0	.0	.1	.1	.2	.1	.0	.0	.0	.0	1.1	1.0	.4	-.5
74.0	-.1	.6	.0	.0	.1	.0	.2	.1	.0	.0	.0	.0	.8	.8	.4	-.5
75.0	.0	.1	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.5	.5	.4	-.5
76.0	.1	.0	.0	.0	.1	.0	.1	-.1	.0	.0	.0	.0	.5	.5	.5	-.5
77.0	.1	.0	.0	.0	.1	.0	.1	-.1	.0	.0	.0	.0	.5	.6	.5	-.5
78.0	.1	.1	.0	.0	.1	.0	.1	-.1	.0	.0	.0	.0	.6	.6	.6	-.5
79.0	.1	.1	.0	.0	.1	.0	.1	-.1	.0	.0	.0	.0	.6	.7	.6	-.5
80.0	.1	.1	.0	.0	.1	.0	.1	-.1	.0	.0	.0	.0	.7	.7	.7	-.6
81.0	.1	.1	.0	.0	.0	.0	.1	-.1	.0	.0	.0	.0	.7	.8	.7	-.6
82.0	.1	.1	.0	.0	.0	.0	.1	-.1	.0	.0	.0	.0	.8	.9	.8	-.7
83.0	.1	.1	.0	.0	.0	.0	.2	-.1	.0	.0	.0	.0	.8	1.0	.9	-.7
84.0	.1	.1	.0	.0	.0	.0	.2	-.1	.0	.0	.0	.0	.9	1.0	.9	-.8
85.0	.1	.2	.0	.0	.0	.0	.2	-.1	.0	.0	.0	.0	1.0	1.1	1.0	-.9
86.0	.1	.2	.0	.0	.0	.0	.2	-.1	.0	.0	.0	.0	1.0	1.2	1.0	-.9
87.0	.1	.2	.0	.0	.0	.0	.2	-.1	.0	.0	.0	.0	1.1	1.2	1.0	-.9
88.0	.1	.2	.0	.0	.0	.0	.2	-.1	.0	.0	.0	.0	1.1	1.2	1.0	-.9
89.0	.1	.2	.0	.0	.0	.0	.2	-.1	.0	.0	.0	.0	1.0	1.2	1.0	-.9
90.0	.1	.2	.0	.0	.0	.0	.2	-.1	.0	.0	.0	.0	1.0	1.2	1.0	-.9
91.0	.1	.2	.0	.0	.0	.0	.2	-.1	.0	.0	.0	.0	1.0	1.2	1.0	-.9
92.0	.1	.2	.0	.0	.0	.0	.2	-.1	.0	.0	.0	.0	1.0	1.1	1.0	-.9
93.0	.1	.2	.0	.0	.0	.0	.2	-.1	.0	.0	.0	.0	1.1	1.1	1.0	-.9
94.0	.1	.2	.0	.0	.1	.0	.2	-.1	.0	.0	.0	.0	1.1	1.1	1.0	-.9
95.0	.1	.2	.0	.0	.1	.0	.1	-.1	.0	.0	.0	.0	1.0	1.1	1.0	-.9
96.0	.1	.2	.0	.0	.0	.0	.1	-.1	.0	.0	.0	.0	1.1	1.1	1.0	-.9
97.0	.1	.2	.0	.0	.2	.0	.1	-.1	.0	.0	.0	.0	1.1	1.1	1.0	-.9
98.0	.1	.2	.0	.0	.2	.0	.1	-.1	.0	.0	.0	.0	1.1	1.1	1.0	-.9
99.0	.1	.2	.0	.0	.2	.0	.1	-.1	.0	.0	.0	.0	1.1	1.2	1.0	-.9

PROPULSION

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	.2	.0	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3
51.0	.2	.0	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.8	.6	-.3
52.0	.3	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.9	.6	-.3
53.0	.3	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.9	.6	-.3
54.0	.2	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.9	.6	-.3
55.0	.3	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.7	1.0	.6	-.3
56.0	.2	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.7	.9	.6	-.3
57.0	.2	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.7	.9	.6	-.4
58.0	.2	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.7	.9	.6	-.4
59.0	.2	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.7	.8	.6	-.4
60.0	.2	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.7	.8	.6	-.4
61.0	.2	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.8	.6	-.4
62.0	.2	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3
63.0	.2	-.2	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3
64.0	.1	-.1	.0	.0	.3	.0	-.1	.0	.0	.0	.0	.0	.6	.8	.5	-.4
65.0	.1	-.2	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.7	.5	-.4
66.0	.1	-.1	.0	.0	.3	.0	-.1	.0	.0	.0	.0	.0	.6	.7	.5	-.4
67.0	.0	-.3	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.6	.6	-.5
68.0	.0	-.5	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.5	.6	.8	-.7
69.0	-.4	.7	.0	.1	.6	.0	.4	.0	.0	.0	.0	.0	1.4	.9	.4	-.9
70.0	.0	.4	.0	-.2	-.3	-.3	.0	.0	-.1	.0	-.1	.0	.8	.8	.8	-.7
71.0	.6	-.7	.0	.0	-.1	-.1	-.6	.0	.0	.0	.0	.0	.4	1.0	1.3	-.7
72.0	.4	-.6	.0	.1	.5	.1	-.4	.0	.0	.0	.0	.0	.8	1.1	1.0	-.6
73.0	-.1	-.1	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	1.1	1.0	.4	-.5
74.0	-.1	.0	.0	.0	.2	-.1	.0	.0	.0	.0	.0	.0	.8	.8	.4	-.5
75.0	.0	-.1	.0	.0	.2	-.1	.0	.0	.0	.0	.0	.0	.5	.5	.4	-.5
76.0	.0	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.5	.5	.5	-.5
77.0	.1	-.2	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.5	.6	.5	-.5
78.0	.1	-.2	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.6	.6	-.5
79.0	.1	-.2	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.7	.6	-.5
80.0	.1	-.2	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.7	.7	.7	-.6
81.0	.1	-.2	.0	.0	.2	.0	-.1	.0	.0	.0	.0	.0	.7	.8	.7	-.6
82.0	.1	-.2	.0	.0	.2	.0	-.1	.0	.0	.0	.0	.0	.8	.9	.8	-.7
83.0	.1	-.2	.0	.0	.2	.0	-.1	.0	.0	.0	.0	.0	.8	1.0	.9	-.7
84.0	.1	-.2	.0	.0	.2	.0	-.1	.0	.0	.0	.0	.0	.9	1.0	.9	-.8
85.0	.1	-.2	.0	.0	.2	.0	-.2	.0	.0	.0	.0	.0	1.0	1.1	1.0	-.9
86.0	.1	-.2	.0	.0	.2	.0	-.2	.0	.0	.0	.0	.0	1.0	1.2	1.0	-.9
87.0	.1	-.2	.0	.0	.2	.0	-.2	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
88.0	.1	-.2	.0	.0	.2	.0	-.2	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
89.0	.1	-.2	.0	.0	.1	.0	-.2	.0	.0	.0	.0	.0	1.0	1.2	1.0	-.9
90.0	.1	-.2	.0	.0	.2	.0	-.2	.0	.0	.0	.0	.0	1.0	1.2	1.0	-.9
91.0	.1	-.3	.0	.0	.2	.0	-.2	.0	.0	.0	.0	.0	1.0	1.2	1.0	-.9
92.0	.1	-.2	.0	.0	.2	.0	-.1	.0	.0	.0	.0	.0	1.0	1.1	1.0	-.9
93.0	.1	-.2	.0	.0	.3	.0	-.1	.0	.0	.0	.0	.0	1.1	1.1	1.0	-.9
94.0	.1	-.2	.0	.0	.3	.0	-.1	.0	.0	.0	.0	.0	1.1	1.1	1.0	-.9
95.0	.1	-.2	.0	.0	.3	.0	-.1	.0	.0	.0	.0	.0	1.0	1.1	1.0	-.9
96.0	.1	-.2	.0	.0	.4	.0	-.1	.0	.0	.0	.0	.0	1.1	1.1	1.0	-.9
97.0	.1	-.2	.0	.0	.4	.0	-.1	.0	.0	.0	.0	.0	1.1	1.1	1.0	-.9
98.0	.1	-.2	.0	.0	.5	.0	-.1	.0	.0	.0	.0	.0	1.1	1.1	1.0	-.9
99.0	.1	-.2	.0	.0	.5	.0	-.1	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9

PROPULSION

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	.1	.2	.2	.0	.4	.0	.1	-.1	.0	.0	.0	.0	1.1	1.2	1.0	-.9
101.0	.1	.2	.0	.0	.4	.0	.1	-.2	.0	.0	.0	.0	1.1	1.2	1.0	-.9
102.0	.1	.2	.0	.0	.4	.0	.1	-.2	.0	.0	.0	.0	1.1	1.2	1.0	-.9
103.0	.1	.2	.1	.0	.4	.0	.2	-.2	.0	.0	.0	.0	1.1	1.2	1.0	-.9
104.0	.1	.1	.0	.0	.4	.0	.1	-.2	.0	.0	.0	.0	1.1	1.2	1.0	-.9
105.0	.1	.1	.0	.0	.4	.0	.1	-.2	.0	.0	.0	.0	1.1	1.2	1.0	-.9
106.0	.1	.1	.0	.0	.4	.0	.1	-.2	.0	.0	.0	.0	1.1	1.2	1.0	-.9
107.0	.1	.1	.0	.0	.4	.0	.1	-.2	.0	.0	.0	.0	1.1	1.2	1.0	-.8
108.0	.1	.1	-.4	.0	.4	.0	.1	-.2	.0	.0	.0	.0	1.2	1.3	1.0	-.9
109.0	.1	.1	-1.8	.0	.4	.0	.1	-.2	.0	.0	.0	.0	2.1	2.2	2.0	-1.9
110.0	.2	.1	-3.2	.0	.4	.0	.1	-.2	.0	.0	.0	.1	3.3	3.5	3.3	-3.1
111.0	.2	.0	-4.0	.0	.3	.0	.1	-.1	.0	.0	.0	.1	4.1	4.3	4.1	-3.8
112.0	.3	.0	-4.3	.0	.2	.0	.1	-.1	.0	.0	.0	.1	4.3	4.7	4.3	-4.0
113.0	.4	.0	-3.9	.0	.2	.0	.1	-.1	.0	.0	.0	.1	3.9	4.3	3.9	-3.6
114.0	.4	.0	-3.1	.0	.1	.0	.1	-.1	.0	.0	.0	.2	3.1	3.5	3.1	-2.7
115.0	.4	.1	-2.0	.0	.1	.0	.1	-.1	.0	.0	.0	.2	2.1	2.5	2.1	-1.7
116.0	.4	.1	-1.0	.0	.0	.0	.0	-.1	.0	.0	.0	.2	1.2	1.6	1.1	-.8
117.0	.4	.2	-.4	.0	.0	.0	.1	-.1	.0	.0	.0	.2	.8	1.1	.7	-.4
118.0	.3	.2	-.4	.0	.0	.0	.1	-.1	.0	.0	.0	.2	.8	1.1	.7	-.4
119.0	.3	.2	-.7	.0	.0	.0	.1	-.1	.0	.0	.0	.2	1.0	1.3	1.0	-.7
120.0	.2	.2	-1.1	.0	.0	.0	.1	-.1	.0	.0	.0	.3	1.4	1.7	1.4	-1.1
121.0	.2	.2	-1.3	.0	.0	.0	.1	-.1	.0	.0	.0	.3	1.6	1.8	1.6	-1.4
122.0	.2	.2	-1.2	.0	.0	.0	.1	-.2	.0	.0	.0	.3	1.6	1.8	1.5	-1.3
123.0	.2	.2	-1.1	.0	.0	.0	.1	-.2	.0	.0	.0	.3	1.5	1.7	1.4	-1.3
124.0	.2	.2	-1.0	.0	.0	.0	.1	-.2	.0	.0	.0	.3	1.4	1.6	1.4	-1.2
125.0	.2	.1	-1.0	.0	.0	.0	.1	-.2	.0	.0	.0	.3	1.4	1.6	1.4	-1.2
126.0	.2	.1	-1.0	.0	.0	.0	.1	-.2	.0	.0	.0	.3	1.4	1.6	1.4	-1.2
127.0	.2	.1	-1.0	.0	.0	.0	.1	-.2	.0	.0	.0	.3	1.4	1.6	1.4	-1.2
128.0	.2	.2	-1.0	.0	.0	.0	.1	-.2	.0	.0	.0	.3	1.4	1.6	1.4	-1.2
129.0	.1	.2	-1.0	.0	.0	.0	.1	-.2	.0	.0	.0	.3	1.4	1.6	1.4	-1.2
130.0	.1	.2	-1.0	.0	.0	.0	.1	-.2	.0	.0	.0	.3	1.4	1.6	1.4	-1.3
140.0	.4	-.1	-1.0	.0	.0	.0	.0	-.2	.0	.0	.0	-.2	.9	1.7	2.2	-1.4
150.0	.7	-.1	-1.0	.0	.0	.0	.1	-.4	.0	.0	.0	-.3	.9	1.6	2.3	-1.6
160.0	.8	-.1	-.9	.0	.0	.0	.1	-.5	.0	.0	.0	-.4	.9	1.7	2.4	-1.6
170.0	.9	-.1	-.9	.0	.0	.0	.1	-.6	.0	.0	.0	-.5	.8	1.7	2.6	-1.7
180.0	.8	.0	-.8	-.1	.1	.0	.1	-.6	.0	.0	.0	-.5	.9	1.8	2.6	-1.7
190.0	.8	.1	-.6	.0	.1	.0	.2	-.5	.0	.0	.0	-.5	1.2	2.0	2.4	-1.6
200.0	.7	.2	-.5	.0	.1	.0	.2	-.5	.0	.0	.0	-.5	1.4	2.1	2.2	-1.5
210.0	.6	.3	-.3	.0	.1	.0	.2	-.4	.0	.0	.0	-.4	1.6	2.2	2.1	-1.5
220.0	.5	.4	-.2	.0	.1	.0	.1	-.4	.0	.0	.0	-.4	1.7	2.3	1.9	-1.4
230.0	.5	.5	-.1	.0	.0	.0	.1	-.3	.0	.0	.0	-.3	1.9	2.3	1.8	-1.3
240.0	.4	.6	.1	.0	.0	.0	.1	-.3	.0	.0	.0	-.3	2.0	2.4	1.6	-1.2
250.0	.3	.5	.2	.0	.0	.0	.1	-.3	.0	.0	.0	-.3	2.1	2.4	1.4	-1.0
260.0	.3	.5	.3	.0	.0	.0	.1	-.2	.0	.0	.0	-.2	2.1	2.4	1.2	-.9
270.0	.2	.4	.4	.0	.0	.0	.1	-.2	.0	.0	.0	-.2	2.1	2.4	1.0	-.8
280.0	.2	.4	.5	.0	.0	.0	.1	-.2	.0	.0	.0	-.2	2.1	2.3	.9	-.7
290.0	.1	.3	.6	.0	.0	.0	.1	-.1	.0	.0	.0	-.1	2.1	2.3	.8	-.6
300.0	.1	.3	.7	.0	.0	.0	.0	-.1	.0	.0	.0	-.1	2.0	2.1	.6	-.5
310.0	.0	.2	.8	.0	.0	.0	.0	-.1	.0	.0	.0	-.1	1.7	1.8	.5	-.4
320.0	.0	.2	.8	.0	.1	.0	.2	-.1	.0	.0	.0	-.1	1.5	1.5	.4	-.4

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	BETA NEG NOM-RSS
100.0	.1	-.2	.0	.0	.5	.0	-.1	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
101.0	.1	-.2	.0	.0	.6	.0	-.1	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
102.0	.1	-.2	.0	.0	.6	.0	-.1	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
103.0	.1	-.2	.0	.0	.6	.0	-.1	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
104.0	.1	-.2	.0	.0	.6	-.1	-.1	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
105.0	.1	-.2	.0	.0	.6	.0	-.1	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
106.0	.1	-.2	.0	.0	.6	-.1	-.1	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
107.0	.1	-.2	.0	.0	.5	-.1	-.1	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.8
108.0	.1	-.1	.4	.0	.6	.0	-.1	.0	.0	.0	.0	.0	1.2	1.3	1.0	-.9
109.0	.1	-.1	1.8	.0	.5	-.1	-.1	.0	.0	.0	.0	.0	2.1	2.2	2.0	-1.9
110.0	.2	.0	3.2	.0	.5	-.1	-.1	.0	.0	.0	.0	.0	3.3	3.5	3.3	-3.1
111.0	.3	-.1	4.0	.0	.4	-.1	-.1	.0	.0	.0	.0	.0	4.1	4.3	4.1	-3.8
112.0	.3	-.1	4.3	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	4.3	4.7	4.3	-4.0
113.0	.4	-.2	3.9	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	3.9	4.3	3.9	-3.6
114.0	.4	-.2	3.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	3.1	3.5	3.1	-2.7
115.0	.4	-.3	2.0	.0	.2	-.1	.0	.0	.0	.0	.0	.0	2.1	2.5	2.1	-1.7
116.0	.4	-.3	1.0	.0	.2	-.1	.0	.0	.0	.0	.0	.0	1.2	1.6	1.1	-.8
117.0	.4	-.3	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.8	1.1	.7	-.4
118.0	.3	-.3	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.8	1.1	.7	-.4
119.0	.3	-.2	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	1.0	1.3	1.0	-.7
120.0	.2	-.2	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	1.4	1.7	1.4	-1.1
121.0	.2	-.2	1.3	.0	.2	.0	-.1	.0	.0	.0	.0	.0	1.6	1.8	1.6	-1.4
122.0	.2	-.2	1.2	.0	.2	.0	-.1	.0	.0	.0	.0	.0	1.6	1.8	1.5	-1.3
123.0	.2	-.2	1.1	.0	.2	.0	-.1	.0	.0	.0	.0	.0	1.5	1.7	1.4	-1.3
124.0	.2	-.2	1.0	.0	.1	.0	-.1	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
125.0	.2	-.2	1.0	.0	.1	.0	-.1	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
126.0	.2	-.2	1.0	.0	.1	.0	-.1	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
127.0	.2	-.2	1.0	.0	.2	.0	-.1	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
128.0	.2	-.1	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
129.0	.1	.0	1.0	.0	.2	.0	-.1	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
130.0	.1	.1	1.0	.0	.2	.0	-.1	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.3
140.0	.5	-.3	-.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.9	1.7	2.2	-1.4
150.0	.7	-.3	-.6	.0	.1	.0	-.1	.0	.0	.0	.0	.0	.9	1.6	2.3	-1.6
160.0	.8	-.4	-.8	.0	.1	.0	-.1	.0	.0	.0	.0	.0	.9	1.7	2.4	-1.6
170.0	.9	-.5	-.9	.0	.1	.0	-.1	.0	.0	.0	.0	.0	.8	1.7	2.6	-1.7
180.0	.9	-.5	-1.0	.0	.2	-.1	-.2	.0	.0	.0	.0	.0	.9	1.8	2.6	-1.7
190.0	.9	-.4	-1.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	1.2	2.0	2.4	-1.6
200.0	.7	-.4	-1.0	.0	.4	-.1	-.1	.0	.0	.0	.0	.0	1.4	2.1	2.2	-1.5
210.0	.6	-.4	-1.1	.0	.4	-.1	-.1	.0	.0	.0	.0	.0	1.6	2.2	2.1	-1.5
220.0	.5	-.3	-1.1	.0	.4	-.1	-.1	.0	.0	.0	.0	.0	1.7	2.3	1.9	-1.4
230.0	.5	-.3	-1.1	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	1.9	2.3	1.8	-1.3
240.0	.4	-.3	-.9	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	2.0	2.4	1.6	-1.2
250.0	.3	-.2	-.9	.0	.2	.0	-.1	.0	.0	.0	.0	.0	2.1	2.4	1.4	-1.0
260.0	.3	-.2	-.8	.0	.2	.0	-.1	.0	.0	.0	.0	.0	2.1	2.4	1.2	-.9
270.0	.2	-.2	-.7	.0	.2	.0	-.1	.0	.0	.0	.0	.0	2.1	2.4	1.0	-.8
280.0	.2	-.2	-.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.1	2.3	.9	-.7
290.0	.1	-.1	-.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	2.1	2.3	.8	-.6
300.0	.1	-.1	-.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	2.0	2.1	.6	-.5
310.0	.1	-.1	-.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.7	1.8	.5	-.4
320.0	.0	-.1	-.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.5	1.5	.4	-.4

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	BETA POS NOM-RSS
330.0	.0	.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	-.1	1.3	1.3	.3	-.3
340.0	-.1	.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.2	.2	-.2
350.0	-.1	.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.1	.1	-.2
360.0	-.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.1	.1	-.3
370.0	-.1	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.1	.3	-.4
380.0	-.2	.0	1.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	1.4	1.2	.5	-.6
390.0	-.2	-.1	1.3	.0	.0	.0	.0	.1	.0	.0	.0	.1	1.4	1.3	.6	-.8
400.0	-.2	-.1	1.3	.0	.0	.0	.0	.1	.0	.0	.0	.1	1.5	1.3	.8	-1.0
410.0	-.2	-.1	1.3	.0	.0	.0	.0	.1	.0	.0	.0	.1	1.5	1.4	1.0	-1.2
420.0	-.2	-.1	1.4	.0	.0	.0	-.1	.1	.0	.0	.0	.1	1.6	1.4	1.2	-1.4
430.0	-.2	-.2	1.4	.0	.0	.0	-.1	.1	.0	.0	.0	.1	1.7	1.5	1.4	-1.6
440.0	-.2	-.2	1.4	.0	.0	.0	-.1	.2	.0	.0	.0	.1	1.7	1.5	1.6	-1.8
450.0	-.2	-.2	1.4	.0	.0	.0	-.1	.2	.0	.0	.0	.1	1.7	1.6	1.7	-1.9
460.0	-.1	-.3	1.4	.0	.0	.0	-.1	.2	.0	.0	.0	.2	1.8	1.6	1.9	-2.0
470.0	-.1	-.3	1.4	.0	.0	.0	-.1	.2	.0	.0	.0	.2	1.8	1.7	2.0	-2.1

PROPULSION

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	.1	.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	.3	-.3
340.0	-.1	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.2	.2	-.2
350.0	-.1	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.1	.1	-.2
360.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.1	.1	-.3
370.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.1	.3	-.4
380.0	-.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.2	.5	-.6
390.0	-.2	.1	.1	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.4	1.3	.6	-.8
400.0	-.2	.1	.2	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.5	1.3	.8	-1.0
410.0	-.2	.1	.2	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.5	1.4	1.0	-1.2
420.0	-.2	.1	.3	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.6	1.4	1.2	-1.4
430.0	-.2	.1	.3	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.7	1.5	1.4	-1.6
440.0	-.2	.1	.3	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.7	1.5	1.6	-1.8
450.0	-.2	.2	.4	.0	-.1	.0	.1	.0	.0	.0	.0	.0	1.7	1.6	1.7	-1.9
460.0	-.1	.2	.4	.0	-.2	.0	.1	.0	.0	.0	.0	.0	1.8	1.6	1.9	-2.0
470.0	-.1	.1	.5	.0	-.2	.0	.1	.0	.0	.0	.0	.0	1.8	1.7	2.0	-2.1

AERO/ENVIRONMENT

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	8.6	.0	.0	.0	.0	.0	.0	.0	.0	1.0	9.6	.7	7.9
2.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.5	4.1	.3	3.3
3.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.5	2.8	.3	1.9
4.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.6	2.3	.4	1.2
5.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.9	.5	.7
6.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.7	.6	.4
7.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.5	.6	.2
8.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.2	.6	-.2
9.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	.9	.6	-.5
10.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.1	.7	-.3
11.0	.6	.0	-.1	.0	.0	.0	.0	.0	.0	.8	1.4	.7	-.1
12.0	.9	.0	-.1	.0	.0	.0	.0	.0	.0	.9	1.7	.8	.1
13.0	.9	.0	-.1	.0	.0	.0	.0	.0	.0	.9	1.9	.8	.1
14.0	.9	.0	-.1	.0	.0	.0	.0	.0	.0	1.0	1.9	.8	.1
15.0	.8	.0	-.2	.0	.0	.0	.0	.0	.0	1.0	1.8	.9	-.1
16.0	.5	.0	-.2	.0	.0	.0	.0	.0	.0	1.0	1.5	.9	-.4
17.0	.2	.0	-.3	.0	.0	.0	.0	.0	.0	1.0	1.2	.8	-.6
18.0	.0	.0	-.3	.0	.0	.0	.0	.0	.0	.9	.9	.8	-.8
19.0	.1	.0	-.2	.0	.1	.0	.0	.0	.0	.8	.8	.7	-.6
20.0	.2	.0	-.2	.0	.1	.0	.0	.0	.0	.7	.9	.6	-.4
21.0	.3	.0	-.2	.0	.1	.0	.0	.0	.0	.7	1.0	.6	-.3
22.0	.3	.0	-.2	.0	.1	.0	.0	.0	.0	.7	1.0	.6	-.2
23.0	.3	.0	-.2	.0	.1	.0	.0	.0	.0	.6	1.0	.5	-.2
24.0	.3	.0	-.2	.0	.1	.0	.0	.0	.0	.6	.9	.5	-.2
25.0	.3	.0	-.1	.0	.1	.0	.0	.0	.0	.6	.9	.5	-.1
26.0	.3	.0	-.1	.0	.2	.0	.0	.0	.0	.6	.9	.4	-.1
27.0	.3	.0	-.1	.0	.2	.0	.0	.0	.0	.5	.9	.4	-.1
28.0	.3	.0	-.1	.0	.2	.1	.0	.0	.0	.6	.9	.5	-.2
29.0	.3	.0	-.1	.0	.3	.1	.0	.0	.0	.6	.9	.5	-.2
30.0	.3	.0	-.1	.0	.3	.1	.0	.0	.0	.6	.9	.5	-.2
31.0	.3	.0	-.1	.0	.4	.1	.0	.0	.0	.7	.9	.6	-.3
32.0	.2	.0	-.1	.0	.4	.1	.0	.0	.0	.7	.9	.6	-.4
33.0	.2	.0	-.1	.0	.5	.1	.0	.0	.0	.7	.9	.7	-.4
34.0	.2	.0	-.1	.0	.5	.1	.0	.0	.0	.7	1.0	.7	-.5
35.0	.2	.0	-.1	.0	.5	.1	.0	.0	.0	.8	1.0	.8	-.5
36.0	.2	.0	-.1	.0	.6	.1	.0	.0	.0	.8	1.0	.8	-.6
37.0	.2	.0	-.1	.0	.6	.1	.0	.0	.0	.8	1.0	.8	-.6
38.0	.2	.0	-.1	.0	.5	.1	.0	.0	.0	.8	1.0	.7	-.5
39.0	.2	.0	-.1	.0	.5	.1	.0	.0	.0	.7	.9	.6	-.5
40.0	.1	.0	.0	.0	.5	.1	.0	.0	.0	.7	.8	.6	-.4
41.0	.2	.0	.0	.0	.5	.1	.0	.0	.0	.6	.8	.5	-.4
42.0	.2	.0	.0	.0	.4	.1	.0	.0	.0	.6	.8	.5	-.3
43.0	.2	.0	.0	.0	.4	.1	.0	.0	.0	.6	.8	.5	-.3
44.0	.2	.0	-.1	.0	.4	.1	.0	.0	.0	.6	.8	.5	-.3
45.0	.2	.0	-.1	.0	.4	.1	.0	.0	.0	.6	.8	.5	-.3
46.0	.3	.0	-.1	.0	.4	.1	.0	.0	.0	.5	.8	.5	-.2
47.0	.3	.0	-.1	.0	.4	.1	.0	.0	.0	.6	.8	.5	-.2
48.0	.2	.0	-.1	.0	.4	.1	.0	.0	.0	.6	.8	.5	-.3
49.0	.2	.0	-.1	.0	.5	.1	.0	.0	.0	.6	.8	.5	-.3

AERO/ENVIRONMENT

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	9.6	.0	.0	.0	.0	.0	.0	.0	.0	1.0	9.6	.7	7.9
2.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.5	4.1	.3	3.3
3.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.5	2.8	.3	1.9
4.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.6	2.3	.4	1.2
5.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.9	.5	.7
6.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.7	.6	.4
7.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.5	.6	.2
8.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.2	.6	-.2
9.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	.9	.6	-.5
10.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.1	.7	-.3
11.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.8	1.4	.7	-.1
12.0	.9	.0	.1	.0	.0	.0	.0	.0	.0	.9	1.7	.8	.1
13.0	.9	.0	.1	.0	.0	.0	.0	.0	.0	.9	1.9	.8	.1
14.0	.9	.0	.1	.0	.0	.0	.0	.0	.0	1.0	1.9	.8	.1
15.0	.8	.0	.2	.0	.0	.0	.0	.0	.0	1.0	1.8	.9	-.1
16.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	1.0	1.5	.9	-.4
17.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	1.0	1.2	.8	-.6
18.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.9	.9	.8	-.8
19.0	.1	.0	.2	.0	-.1	.0	.0	.0	.0	.8	.8	.7	-.6
20.0	.2	.0	.2	.0	-.1	.0	.0	.0	.0	.7	.9	.6	-.4
21.0	.3	.0	.2	.0	-.1	.0	.0	.0	.0	.7	1.0	.6	-.3
22.0	.3	.0	.2	.0	-.1	.0	.0	.0	.0	.7	1.0	.6	-.2
23.0	.2	.0	.2	.0	-.1	.0	.0	.0	.0	.6	1.0	.5	-.2
24.0	.3	.0	.2	.0	-.1	.0	.0	.0	.0	.6	.9	.5	-.2
25.0	.3	.0	.1	.0	-.1	.0	.0	.0	.0	.6	.9	.5	-.1
26.0	.3	.0	.1	.0	-.2	.0	.0	.0	.0	.6	.9	.4	-.1
27.0	.3	.0	.1	.0	-.2	.0	.0	.0	.0	.5	.9	.4	-.1
28.0	.3	.0	.1	.0	-.2	-.1	.0	.0	.0	.6	.9	.5	-.2
29.0	.2	.0	.1	.0	-.3	-.1	.0	.0	.0	.6	.9	.5	-.2
30.0	.2	.0	.1	.0	-.3	-.1	.0	.0	.0	.6	.9	.5	-.2
31.0	.3	.0	.1	.0	-.4	-.1	.0	.0	.0	.7	.9	.6	-.3
32.0	.2	.0	.1	.0	-.4	-.1	.0	.0	.0	.7	.9	.6	-.4
33.0	.2	.0	.1	.0	-.4	-.1	.0	.0	.0	.7	.9	.7	-.4
34.0	.2	.0	.1	.0	-.5	-.1	.0	.0	.0	.7	1.0	.7	-.5
35.0	.2	.0	.1	.0	-.5	-.1	.0	.0	.0	.8	1.0	.8	-.5
36.0	.2	.0	.1	.0	-.5	-.1	.0	.0	.0	.8	1.0	.8	-.6
37.0	.2	.0	.1	.0	-.5	-.1	.0	.0	.0	.8	1.0	.8	-.6
38.0	.2	.0	.1	.0	-.5	-.1	.0	.0	.0	.8	1.0	.7	-.5
39.0	.3	.0	.1	.0	-.5	-.1	.0	.0	.0	.7	.9	.6	-.5
40.0	.1	.0	.0	.0	-.4	-.1	.0	.0	.0	.7	.8	.6	-.4
41.0	.2	.0	.0	.0	-.4	-.1	.0	.0	.0	.6	.8	.5	-.4
42.0	.2	.0	.0	.0	-.4	-.1	.0	.0	.0	.6	.8	.5	-.3
43.0	.2	.0	.0	.0	-.4	-.1	.0	.0	.0	.6	.8	.5	-.3
44.0	.2	.0	.1	.0	-.4	-.1	.0	.0	.0	.6	.8	.5	-.3
45.0	.2	.0	.1	.0	-.4	-.1	.0	.0	.0	.6	.8	.5	-.3
46.0	.3	.0	.1	.0	-.4	-.1	.0	.0	.0	.5	.8	.5	-.2
47.0	.3	.0	.1	.0	-.4	-.1	.0	.0	.0	.6	.8	.5	-.2
48.0	.2	.0	.1	.0	-.4	-.1	.0	.0	.0	.6	.8	.5	-.3
49.0	.2	.0	.1	.0	-.4	-.1	.0	.0	.0	.6	.8	.5	-.3

AERO/ENVIRONMENT

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	.2	.0	-.1	.0	.5	.1	.0	.0	.0	.6	.8	.5	-.3
51.0	.2	.0	-.1	.0	.5	.1	.0	.0	.0	.6	.8	.6	-.3
52.0	.3	.0	-.1	.0	.5	.1	.0	.0	.0	.6	.9	.6	-.3
53.0	.3	.0	-.1	.0	.5	.1	.0	.0	.0	.6	.9	.6	-.3
54.0	.3	.0	-.1	.0	.5	.1	.0	.0	.0	.6	.9	.6	-.3
55.0	.3	.0	-.1	.0	.5	.1	.0	.0	.0	.7	1.0	.6	-.3
56.0	.2	.0	-.1	.0	.6	.1	.0	.0	.0	.7	.9	.6	-.3
57.0	.2	.0	-.1	.0	.6	.1	.0	.0	.0	.7	.9	.6	-.4
58.0	.2	.0	-.1	.0	.6	.1	.0	.0	.0	.7	.9	.6	-.4
59.0	.2	.0	-.1	.0	.6	.1	.0	.0	.0	.7	.8	.6	-.4
60.0	.2	.0	-.1	.0	.6	.1	.0	.0	.0	.7	.8	.6	-.4
61.0	.2	.0	-.1	.0	.5	.1	.0	.0	.0	.6	.8	.6	-.4
62.0	.2	.0	-.1	.0	.5	.1	.0	.0	.0	.6	.8	.5	-.3
63.0	.2	.0	-.1	.0	.5	.1	.0	.0	.0	.6	.8	.5	-.3
64.0	.1	.0	-.1	.0	.5	.1	.0	.0	.0	.6	.8	.5	-.4
65.0	.1	.0	-.1	.0	.5	.1	.0	.0	.0	.6	.7	.5	-.4
66.0	.1	.0	-.1	.0	.5	.1	.0	.0	.0	.6	.7	.5	-.4
67.0	.1	.0	-.1	.0	.4	.1	.0	.0	.0	.6	.6	.6	-.5
68.0	.1	.0	-.1	.0	.4	.1	.0	.0	.0	.5	.6	.8	-.7
69.0	-.4	.1	.0	.0	.5	.1	.0	.0	.5	1.4	.9	.4	-.9
70.0	.1	-.2	-.3	-.1	.2	.0	.0	.0	.1	.8	.8	.8	-.7
71.0	.6	-.1	-.2	-.1	.3	.1	.0	.0	-.5	.4	1.0	1.3	-.7
72.0	.4	.2	.0	.0	.4	.2	.0	.0	-.3	.8	1.1	1.0	-.6
73.0	-.1	.0	-.1	.0	.3	.1	.0	.0	.1	1.1	1.0	.4	-.5
74.0	-.1	.0	-.1	.0	.3	.1	.0	.0	.1	.8	.8	.4	-.5
75.0	.1	.0	-.1	.0	.3	.1	-.1	.0	.1	.5	.5	.4	-.5
76.0	.1	.0	-.1	.0	.2	.1	-.1	.0	.0	.5	.5	.5	-.5
77.0	.1	.0	-.1	.0	.2	.1	-.1	.0	.0	.5	.6	.5	-.5
78.0	.1	.0	-.1	.0	.2	.1	-.1	.0	.0	.6	.6	.6	-.5
79.0	.1	.0	-.1	.0	.2	.1	-.1	.0	.0	.6	.7	.6	-.5
80.0	.1	.0	-.2	.0	.1	.1	-.1	.0	.0	.7	.7	.7	-.6
81.0	.1	.0	-.2	.0	.1	.1	-.1	.0	.0	.7	.8	.7	-.6
82.0	.1	.0	-.2	.0	.1	.1	-.1	.0	.0	.8	.9	.8	-.7
83.0	.1	.0	-.2	-.1	.1	.1	-.1	.0	.0	.8	1.0	.9	-.7
84.0	.1	.0	-.2	-.1	.0	.1	-.1	.0	.0	.9	1.0	.9	-.8
85.0	.1	.0	-.2	-.1	.0	.1	-.1	.0	.0	1.0	1.1	1.0	-.9
86.0	.1	.0	-.2	-.1	.0	.2	-.1	.0	.0	1.0	1.2	1.0	-.9
87.0	.1	.0	-.2	-.1	.0	.2	-.1	.0	.0	1.1	1.2	1.0	-.9
88.0	.1	.0	-.2	-.1	.0	.2	-.1	.0	.0	1.1	1.2	1.0	-.9
89.0	.1	.0	-.2	-.1	.0	.2	-.1	.0	.0	1.0	1.2	1.0	-.9
90.0	.1	.0	-.2	-.1	.1	.2	-.1	.0	.0	1.0	1.2	1.0	-.9
91.0	.1	.0	-.2	-.1	.1	.2	-.1	.0	.0	1.0	1.2	1.0	-.9
92.0	.1	.0	-.2	.0	.1	.2	-.1	.0	.0	1.0	1.1	1.0	-.9
93.0	.1	.0	-.2	.0	.1	.2	-.1	.0	.0	1.1	1.1	1.0	-.9
94.0	.1	.0	-.2	-.1	.1	.2	-.1	.0	.0	1.1	1.1	1.0	-.9
95.0	.1	.0	-.2	.0	.1	.2	-.1	.0	.0	1.0	1.1	1.0	-.9
96.0	.1	.0	-.2	.0	.1	.2	-.1	.0	.0	1.1	1.1	1.0	-.9
97.0	.1	.0	-.2	.0	.1	.2	-.1	.0	.0	1.1	1.1	1.0	-.9
98.0	.1	.0	-.2	.0	.2	.2	-.1	.0	.0	1.1	1.1	1.0	-.9
99.0	.1	.0	-.2	.0	.2	.2	-.1	.0	.0	1.1	1.2	1.0	-.9

AERO/ENVIRONMENT

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	.2	.0	.1	.0	-.4	-.1	.0	.0	.0	.6	.8	.5	-.3
51.0	.2	.0	.1	.0	-.4	-.1	.0	.0	.0	.6	.8	.6	-.3
52.0	.3	.0	.1	.0	-.5	-.1	.0	.0	.0	.6	.9	.6	-.3
53.0	.3	.0	.1	.0	-.5	-.1	.0	.0	.0	.6	.9	.6	-.3
54.0	.3	.0	.1	.0	-.5	-.1	.0	.0	.0	.6	.9	.6	-.3
55.0	.3	.0	.1	.0	-.5	-.1	.0	.0	.0	.7	1.0	.6	-.3
56.0	.2	.0	.1	.0	-.5	-.1	.0	.0	.0	.7	.9	.6	-.3
57.0	.2	.0	.1	.0	-.5	-.1	.0	.0	.0	.7	.9	.6	-.4
58.0	.2	.0	.1	.0	-.5	-.1	.0	.0	.0	.7	.9	.6	-.4
59.0	.2	.0	.1	.0	-.5	-.1	.0	.0	.0	.7	.8	.6	-.4
60.0	.2	.0	.1	.0	-.5	-.1	.0	.0	.0	.7	.8	.6	-.4
61.0	.2	.0	.1	.0	-.5	-.1	.0	.0	.0	.6	.8	.6	-.4
62.0	.2	.0	.1	.0	-.5	-.1	.0	.0	.0	.6	.8	.5	-.3
63.0	.2	.0	.1	.0	-.4	-.1	.0	.0	.0	.6	.8	.5	-.3
64.0	.1	.0	.1	.0	-.4	-.1	.0	.0	.0	.6	.8	.5	-.4
65.0	.1	.0	.1	.0	-.4	-.1	.0	.0	.0	.6	.7	.5	-.4
66.0	.1	.0	.1	.0	-.4	-.1	.0	.0	.0	.6	.7	.5	-.4
67.0	.0	.0	.1	.0	-.4	-.1	.0	.0	.0	.6	.6	.6	-.5
68.0	.0	-.1	.0	.0	-.4	-.1	.0	.0	.0	.5	.6	.8	-.7
69.0	-.4	.0	.1	.0	-.4	-.1	.0	.0	.5	1.4	.9	.4	-.9
70.0	.1	.2	.3	.1	-.2	.0	.0	.0	.0	.8	.8	.8	-.7
71.0	.6	.0	.1	.1	-.3	-.1	.0	.0	-.5	.4	1.0	1.3	-.7
72.0	.4	-.2	.0	.0	-.4	-.2	.0	.0	-.3	.8	1.1	1.0	-.6
73.0	-.1	.0	.1	.0	-.3	-.1	.0	.0	.1	1.1	1.0	.4	-.5
74.0	-.1	.0	.1	.0	-.3	-.1	.0	.0	.1	.8	.8	.4	-.5
75.0	.1	.0	.2	.0	-.2	-.1	.1	.0	.1	.5	.5	.4	-.5
76.0	.0	.0	.1	.0	-.2	-.1	.1	.0	.0	.5	.5	.5	-.5
77.0	.1	.0	.1	.0	-.2	-.1	.1	.0	.0	.5	.6	.5	-.5
78.0	.1	.0	.1	.0	-.2	-.1	.1	.0	.0	.6	.6	.6	-.5
79.0	.1	.0	.2	.0	-.2	-.1	.1	.0	.0	.6	.7	.6	-.6
80.0	.1	.0	.2	.0	-.1	-.1	.1	.0	.0	.7	.7	.7	-.6
81.0	.1	.0	.2	.0	-.1	-.1	.1	.0	.0	.7	.8	.7	-.6
82.0	.1	.0	.2	.1	-.1	-.1	.1	.0	.0	.8	.9	.8	-.7
83.0	.1	.0	.2	.1	-.1	-.1	.1	.0	.0	.8	1.0	.9	-.7
84.0	.1	.0	.2	.1	.0	-.1	.1	.0	.0	.9	1.0	.9	-.8
85.0	.1	.0	.2	.1	.0	-.2	.1	.0	.0	1.0	1.1	1.0	-.9
86.0	.1	.0	.2	.1	.0	-.2	.1	.0	.0	1.0	1.2	1.0	-.9
87.0	.1	.0	.2	.1	.0	-.2	.1	.0	.0	1.1	1.2	1.0	-.9
88.0	.1	.0	.2	.1	.0	-.2	.1	.0	.0	1.1	1.2	1.0	-.9
89.0	.1	.0	.2	.1	.0	-.2	.1	.0	.0	1.0	1.2	1.0	-.9
90.0	.1	.0	.2	.1	-.1	-.2	.1	.0	.0	1.0	1.2	1.0	-.9
91.0	.1	.0	.2	.1	-.1	-.2	.1	.0	.0	1.0	1.2	1.0	-.9
92.0	.1	.0	.2	.1	-.1	-.2	.1	.0	.0	1.0	1.1	1.0	-.9
93.0	.1	.0	.2	.1	-.1	-.2	.1	.0	.0	1.1	1.1	1.0	-.9
94.0	.1	.0	.2	.1	-.1	-.2	.1	.0	.0	1.1	1.1	1.0	-.9
95.0	.1	.0	.2	.0	-.1	-.2	.1	.0	.0	1.0	1.1	1.0	-.9
96.0	.1	.0	.2	.0	-.1	-.2	.1	.0	.0	1.1	1.1	1.0	-.9
97.0	.1	.0	.2	.0	-.1	-.2	.1	.0	.0	1.1	1.1	1.0	-.9
98.0	.1	.0	.2	.0	-.1	-.2	.1	.0	.0	1.1	1.1	1.0	-.9
99.0	.1	.0	.2	.0	-.1	-.2	.1	.0	.0	1.1	1.2	1.0	-.9

AERO/ENVIRONMENT

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	.1	.0	-.2	-.1	.2	.3	-.1	.0	.0	1.1	1.2	1.0	-.9
101.0	.1	.0	-.2	-.1	.2	.3	-.1	.0	.0	1.1	1.2	1.0	-.9
102.0	.1	.0	-.2	-.1	.2	.3	-.1	.0	.0	1.1	1.2	1.0	-.9
103.0	.1	.0	-.2	-.1	.2	.3	-.1	.0	.0	1.1	1.2	1.0	-.9
104.0	.1	.0	-.2	-.1	.2	.3	-.1	.0	.0	1.1	1.2	1.0	-.9
105.0	.1	.0	-.2	.0	.2	.4	-.1	.0	.0	1.1	1.2	1.0	-.9
106.0	.1	.0	-.2	.0	.2	.4	-.1	.0	.0	1.1	1.2	1.0	-.9
107.0	.1	.0	-.2	.0	.2	.4	-.1	.0	.0	1.1	1.2	1.0	-.8
108.0	.1	.0	-.1	.0	.2	.4	-.1	.0	.0	1.2	1.3	1.0	-.9
109.0	.1	.0	-.1	.0	.2	.4	-.1	.0	.0	2.1	2.2	2.0	-1.9
110.0	.2	.0	-.1	-.1	.2	.4	-.1	.0	.0	3.3	3.5	3.3	-3.1
111.0	.3	.0	-.2	-.1	.3	.4	-.1	.0	.0	4.1	4.3	4.1	-3.8
112.0	.3	.0	-.1	-.1	.3	.4	-.1	.0	.0	4.3	4.7	4.3	-4.0
113.0	.4	.0	-.1	.0	.3	.4	-.1	.0	.0	3.9	4.3	3.9	-3.6
114.0	.4	.0	-.1	.0	.3	.4	-.1	.0	.0	3.1	3.5	3.1	-2.7
115.0	.4	.0	-.1	.0	.4	.4	-.1	.0	.0	2.1	2.5	2.1	-1.7
116.0	.4	.0	-.1	.0	.4	.3	-.1	.0	.0	1.2	1.6	1.1	-.8
117.0	.4	.0	-.1	.0	.3	.3	-.1	.0	.0	.8	1.1	.7	-.4
118.0	.3	.0	-.1	.0	.3	.3	-.1	.0	.0	.8	1.1	.7	-.4
119.0	.3	.0	-.1	.0	.2	.3	-.1	.0	.0	1.0	1.3	1.0	-.7
120.0	.2	.0	-.1	.0	.2	.3	-.1	.0	.0	1.4	1.7	1.4	-1.1
121.0	.2	.0	-.1	.0	.2	.3	-.1	.0	.0	1.6	1.8	1.6	-1.4
122.0	.2	.0	-.1	.0	.2	.3	-.1	.0	.0	1.6	1.8	1.5	-1.3
123.0	.2	.0	-.1	.0	.1	.3	-.1	.0	.0	1.5	1.7	1.4	-1.3
124.0	.2	.0	-.1	.0	.1	.3	-.1	.0	.0	1.4	1.6	1.4	-1.2
125.0	.2	.0	-.1	-.1	.1	.3	-.1	.0	.0	1.4	1.6	1.4	-1.2
126.0	.2	.0	-.1	.0	.1	.3	-.1	.0	.0	1.4	1.6	1.4	-1.2
127.0	.2	.0	-.1	.0	.1	.3	-.1	.0	.0	1.4	1.6	1.4	-1.2
128.0	.2	.0	-.1	.0	.2	.3	-.1	.0	.0	1.4	1.6	1.4	-1.2
129.0	.1	.0	-.1	.0	.2	.3	-.1	.0	.0	1.4	1.6	1.4	-1.2
130.0	.1	.0	-.1	.0	.2	.3	-.1	.0	.0	1.4	1.6	1.4	-1.3
140.0	.0	.0	-.1	.0	.2	.3	-.1	.0	.0	.9	1.7	2.2	-1.4
150.0	.7	.0	-.1	.0	.1	.3	-.1	.0	.0	.9	1.6	2.3	-1.6
160.0	.8	.0	-.2	.0	.1	.3	-.1	.0	.0	.9	1.7	2.4	-1.6
170.0	.9	.0	-.3	.0	.1	.3	-.1	.0	.0	.8	1.7	2.6	-1.7
180.0	.0	.0	-.3	-.1	.2	.3	-.2	.0	.0	.9	1.8	2.6	-1.7
190.0	.0	.0	-.3	-.1	.3	.4	-.1	.0	.0	1.2	2.0	2.4	-1.6
200.0	.7	.0	-.2	-.1	.4	.5	-.1	.0	.0	1.4	2.1	2.2	-1.5
210.0	.6	.0	-.2	-.1	.5	.6	-.1	.0	.0	1.6	2.2	2.1	-1.5
220.0	.5	.0	-.2	-.1	.5	.7	-.1	.0	.0	1.7	2.3	1.9	-1.4
230.0	.5	.0	-.2	-.1	.5	.8	-.1	.0	.0	1.9	2.3	1.8	-1.3
240.0	.4	.0	-.2	.0	.4	.9	-.1	.0	.0	2.0	2.4	1.6	-1.2
250.0	.3	.0	-.1	.0	.4	.9	-.1	.0	.0	2.1	2.4	1.4	-1.0
260.0	.3	.0	-.1	.0	.3	1.0	-.1	.0	.0	2.1	2.4	1.2	-.9
270.0	.2	.0	-.1	.0	.3	.9	-.1	.0	.0	2.1	2.4	1.0	-.8
280.0	.2	.0	-.1	.0	.3	.8	.0	.0	.0	2.1	2.3	.9	-.7
290.0	.1	.0	-.1	.0	.2	.7	.0	.0	.0	2.1	2.3	.8	-.6
300.0	.1	.0	-.1	.0	.2	.6	.0	.0	.0	2.0	2.1	.6	-.5
310.0	.0	.0	.0	.0	.2	.5	.0	.0	.0	1.7	1.8	.5	-.4
320.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	1.5	1.5	.4	-.4

AEPO/ENVIRONMENT

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	.1	.0	.2	.1	-.1	-.3	.1	.0	.0	1.1	1.2	1.0	-.9
101.0	.1	.0	.2	.1	-.1	-.3	.1	.0	.0	1.1	1.2	1.0	-.9
102.0	.1	.0	.2	.1	-.2	-.3	.1	.0	.0	1.1	1.2	1.0	-.9
103.0	.1	.0	.2	.1	-.1	-.3	.1	.0	.0	1.1	1.2	1.0	-.9
104.0	.1	.0	.2	.1	-.2	-.3	.1	.0	.0	1.1	1.2	1.0	-.9
105.0	.1	.0	.2	.0	-.2	-.4	.1	.0	.0	1.1	1.2	1.0	-.9
106.0	.1	.0	.2	.1	-.2	-.4	.1	.0	.0	1.1	1.2	1.0	-.9
107.0	.1	.0	.2	.0	-.2	-.4	.1	.0	.0	1.1	1.2	1.0	-.8
108.0	.1	.0	.2	.0	-.2	-.4	.1	.0	.0	1.2	1.3	1.0	-.9
109.0	.1	.0	.2	.1	-.2	-.4	.1	.0	.0	2.1	2.2	2.0	-1.9
110.0	.2	.0	.2	.1	-.2	-.4	.1	.0	.0	3.3	3.5	3.3	-3.1
111.0	.3	.0	.2	.1	-.2	-.4	.1	.0	.0	4.1	4.3	4.1	-3.8
112.0	.3	.0	.2	.1	-.3	-.4	.1	.0	.0	4.3	4.7	4.3	-4.0
113.0	.4	.0	.1	.0	-.3	-.4	.1	.0	.0	3.9	4.3	3.9	-3.6
114.0	.4	.0	.1	.0	-.3	-.3	.1	.0	.0	3.1	3.5	3.1	-2.7
115.0	.4	.0	.1	.0	-.3	-.3	.1	.0	.0	2.1	2.5	2.1	-1.7
116.0	.4	.0	.1	.0	-.3	-.3	.1	.0	.0	1.2	1.6	1.1	-.8
117.0	.4	.0	.1	.0	-.3	-.3	.1	.0	.0	.8	1.1	.7	-.4
118.0	.3	.0	.1	.0	-.2	-.3	.1	.0	.0	.8	1.1	.7	-.4
119.0	.3	.0	.1	.0	-.2	-.3	.1	.0	.0	1.0	1.3	1.0	-.7
120.0	.3	.0	.1	.0	-.2	-.3	.1	.0	.0	1.4	1.7	1.4	-1.1
121.0	.3	.0	.1	.0	-.2	-.3	.1	.0	.0	1.6	1.8	1.6	-1.4
122.0	.2	.1	.1	.0	-.1	-.3	.1	.0	.0	1.6	1.8	1.5	-1.3
123.0	.2	.1	.2	.0	-.1	-.3	.1	.0	.0	1.5	1.7	1.4	-1.3
124.0	.2	.1	.2	.1	-.1	-.3	.1	.0	.0	1.4	1.6	1.4	-1.2
125.0	.2	.1	.2	.1	-.1	-.3	.1	.0	.0	1.4	1.6	1.4	-1.2
126.0	.2	.1	.1	.0	-.1	-.3	.1	.0	.0	1.4	1.6	1.4	-1.2
127.0	.2	.1	.1	.0	-.1	-.3	.1	.0	.0	1.4	1.6	1.4	-1.2
128.0	.2	.1	.1	.0	-.1	-.3	.1	.0	.0	1.4	1.6	1.4	-1.2
129.0	.1	.1	.1	.0	-.1	-.3	.1	.0	.0	1.4	1.6	1.4	-1.2
130.0	.1	.1	.1	.0	-.1	-.3	.1	.0	.0	1.4	1.6	1.4	-1.3
140.0	.8	.0	.1	.0	-.2	-.7	.1	.0	.0	.9	1.7	2.2	-1.4
150.0	.7	.1	.1	.0	-.2	-.7	.1	.0	.0	.9	1.6	2.3	-1.6
160.0	.9	.1	.1	.0	-.3	-.8	.1	.0	.0	.9	1.7	2.4	-1.6
170.0	.9	.0	.1	.0	-.4	-.9	.1	.0	.0	.8	1.7	2.6	-1.7
180.0	.8	-.1	.2	.1	-.4	-.8	.1	.0	.0	.9	1.8	2.6	-1.7
190.0	.8	-.1	.3	.1	-.4	-.8	.2	.0	.0	1.2	2.0	2.4	-1.6
200.0	.7	-.1	.4	.1	-.4	-.7	.1	.0	.0	1.4	2.1	2.2	-1.5
210.0	.6	-.1	.3	.1	-.3	-.6	.1	.0	.0	1.6	2.2	2.1	-1.5
220.0	.5	-.1	.3	.1	-.3	-.6	.1	.0	.0	1.7	2.3	1.9	-1.4
230.0	.5	.0	.3	.1	-.3	-.5	.1	.0	.0	1.9	2.3	1.8	-1.3
240.0	.4	.0	.2	.1	-.2	-.5	.1	.0	.0	2.0	2.4	1.6	-1.2
250.0	.3	.0	.2	.0	-.2	-.4	.1	.0	.0	2.1	2.4	1.4	-1.0
260.0	.3	.0	.2	.0	-.2	-.4	.1	.0	.0	2.1	2.4	1.2	-.9
270.0	.2	.0	.2	.0	-.2	-.3	.1	.0	.0	2.1	2.4	1.0	-.8
280.0	.2	.0	.1	.0	-.1	-.3	.1	.0	.0	2.1	2.3	.9	-.7
290.0	.1	.0	.1	.0	-.1	-.2	.0	.0	.0	2.1	2.3	.8	-.6
300.0	.1	.0	.1	.0	-.1	-.2	.0	.0	.0	2.0	2.1	.6	-.5
310.0	.1	.0	.1	.0	-.1	-.1	.0	.0	.0	1.7	1.8	.5	-.4
320.0	.1	.0	.1	.0	-.1	-.1	.0	.0	.0	1.5	1.5	.4	-.4

AERO/ENVIRONMENT

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	.0	.0	.0	.0	.1	.7	.0	.0	.0	1.3	1.3	.3	-.3
340.0	-.1	.0	.0	.0	.1	.2	.0	.0	.0	1.3	1.2	.2	-.2
350.0	-.1	.0	.0	.0	.0	.1	.0	.0	.0	1.2	1.1	.1	-.2
360.0	-.1	.0	.0	.0	.0	.1	.0	.0	.0	1.2	1.1	.1	-.3
370.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.1	.3	-.4
380.0	-.2	.0	.0	.0	.0	-.1	.0	.0	.0	1.4	1.2	.5	-.6
390.0	-.2	.0	.0	.0	-.1	-.1	.0	.0	.0	1.4	1.3	.6	-.8
400.0	-.2	.0	.1	.0	-.1	-.2	.0	.0	.0	1.5	1.3	.8	-1.0
410.0	-.2	.0	.1	.0	-.1	-.3	.0	.0	.0	1.5	1.4	1.0	-1.2
420.0	-.2	.0	.1	.0	-.1	-.3	.0	.0	.0	1.6	1.4	1.2	-1.4
430.0	-.2	.0	.1	.0	-.2	-.4	.0	.0	.0	1.7	1.5	1.4	-1.6
440.0	-.2	.0	.1	.0	-.2	-.4	.0	.0	.0	1.7	1.5	1.6	-1.8
450.0	-.2	.0	.1	.0	-.2	-.5	.0	.0	.0	1.7	1.6	1.7	-1.9
460.0	-.1	.0	.1	.0	-.2	-.5	.0	.0	.0	1.8	1.6	1.9	-2.0
470.0	-.1	.0	.1	.0	-.2	-.6	.1	.0	.0	1.8	1.7	2.0	-2.1

AERO/ENVIRONMENT

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	.0	.0	.0	.0	.0	-.1	.0	.0	.0	1.3	1.3	.3	-.3
340.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.2	.2	-.2
350.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.1	.1	-.2
360.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.1	.1	-.3
370.0	-.1	.0	.0	.0	.0	.1	.0	.0	.0	1.3	1.1	.3	-.4
380.0	-.2	.0	.0	.0	.0	.1	.0	.0	.0	1.4	1.2	.5	-.6
390.0	-.2	.0	-.1	.0	.1	.1	.0	.0	.0	1.4	1.3	.6	-.8
400.0	-.2	.0	-.1	.0	.1	.1	.0	.0	.0	1.5	1.3	.8	-1.0
410.0	-.2	.0	-.1	.0	.1	.2	.0	.0	.0	1.5	1.4	1.0	-1.2
420.0	-.2	.0	-.1	.0	.1	.2	.0	.0	.0	1.6	1.4	1.2	-1.4
430.0	-.2	.0	-.1	.0	.1	.2	.0	.0	.0	1.7	1.5	1.4	-1.6
440.0	-.2	.0	-.1	.0	.1	.2	.0	.0	.0	1.7	1.5	1.6	-1.8
450.0	-.2	.0	-.1	.0	.1	.3	.0	.0	.0	1.7	1.6	1.7	-1.9
460.0	-.1	.0	-.1	.0	.1	.3	-.1	.0	.0	1.8	1.6	1.9	-2.0
470.0	-.1	.0	-.1	.0	.1	.3	-.1	.0	.0	1.8	1.7	2.0	-2.1

MASS PROPERTIES

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	8.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	9.6	.7	7.9
2.0	3.6	.0	.0	.0	.0	.0	.1	.0	.0	.0	.5	4.1	.3	3.3
3.0	2.2	.0	.1	.0	.0	.0	.1	.0	.0	.0	.5	2.8	.3	1.9
4.0	1.6	.0	.0	.0	.0	.0	.1	.0	.0	.0	.6	2.3	.4	1.2
5.0	1.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	.7	1.9	.5	.7
6.0	1.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.7	1.7	.6	.4
7.0	.8	.0	.0	.0	.0	.0	.1	.0	.0	.0	.7	1.5	.6	.2
8.0	.4	.1	.0	.0	.0	.0	.1	.0	.0	.0	.8	1.2	.6	-.2
9.0	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.8	.9	.6	-.5
10.0	.4	-.1	.0	.0	.0	.0	.1	.0	.0	.0	.7	1.1	.7	-.3
11.0	.6	-.1	.0	.0	.0	.0	.1	.0	.0	.0	.8	1.4	.7	-.1
12.0	.9	.0	.0	.0	.0	.0	.1	.0	.0	.0	.9	1.7	.8	.1
13.0	.9	.0	.0	.0	.0	.0	.1	.0	.0	.0	.9	1.9	.8	.1
14.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.9	.8	.1
15.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.8	.9	-.1
16.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.5	.9	-.4
17.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.2	.8	-.6
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9	.8	-.8
19.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.7	-.6
20.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.4
21.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.3
22.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.2
23.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.0	.5	-.2
24.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.2
25.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.1
26.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.4	-.1
27.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.9	.4	-.1
28.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.2
29.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.2
30.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.2
31.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.3
32.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.4
33.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.7	-.4
34.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.0	.7	-.5
35.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.8	-.5
36.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
37.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
38.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.7	-.5
39.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.5
40.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
41.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
42.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
43.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
44.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
45.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
46.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.8	.5	-.2
47.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.2
48.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
49.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3

MASS PROPERTIES

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	8.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	9.6	.7	7.9
2.0	3.6	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.5	4.1	.3	3.3
3.0	2.3	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.5	2.8	.3	1.9
4.0	1.6	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.6	2.3	.4	1.2
5.0	1.2	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.7	1.9	.5	.7
6.0	1.0	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.7	1.7	.6	.4
7.0	.8	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.7	1.5	.6	.2
8.0	.4	.0	.1	.0	.0	.0	-.1	.0	.0	.0	.8	1.2	.6	-.2
9.0	.1	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.8	.9	.6	-.5
10.0	.4	.0	-.1	.0	.0	.0	-.1	.0	.0	.0	.7	1.1	.7	-.3
11.0	.6	.0	-.1	.0	.0	.0	-.1	.0	.0	.0	.8	1.4	.7	-.1
12.0	.9	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.9	1.7	.8	.1
13.0	.9	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.9	1.9	.8	.1
14.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.9	.8	.1
15.0	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.0	1.8	.9	-.1
16.0	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.0	1.5	.9	-.4
17.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.0	1.2	.8	-.6
18.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.9	.9	.6	-.8
19.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.7	-.6
20.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.4
21.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.3
22.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.2
23.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	1.0	.5	-.2
24.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.2
25.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.1
26.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.4	-.1
27.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.9	.4	-.1
28.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.2
29.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.2
30.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.2
31.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.3
32.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.4
33.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.7	-.4
34.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.0	.7	-.5
35.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.6	-.5
36.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
37.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
38.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.7	-.5
39.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.5
40.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
41.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
42.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
43.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
44.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
45.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
46.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.8	.5	-.2
47.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.2
48.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
49.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3

MASS PROPERTIES

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
51.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
51.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.6	-.3
53.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.6	-.3
53.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.6	-.3
54.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.6	-.3
55.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.3
56.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.3
57.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.4
58.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.4
59.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
60.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
61.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.6	-.4
62.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
63.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
64.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
65.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
66.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
67.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.6	-.5
68.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6	.8	-.7
69.0	-.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.9	.4	-.9
70.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.8	-.7
71.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.0	1.3	-.7
72.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.1	1.0	-.6
73.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.0	.4	-.5
74.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.4	-.5
75.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.4	-.5
76.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.5	-.5
77.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6	.5	-.5
78.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.6	-.5
79.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.6	-.5
80.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.7	-.6
81.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.7	-.6
82.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.9	.8	-.7
83.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.9	-.7
84.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.0	.9	-.8
85.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.1	1.0	-.9
86.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.2	1.0	-.9
87.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
88.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
89.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.2	1.0	-.9
90.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.2	1.0	-.9
91.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.2	1.0	-.9
92.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.1	1.0	-.9
93.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	1.0	-.9
94.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	1.0	-.9
95.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.1	1.0	-.9
96.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	1.0	-.9
97.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	1.0	-.9
98.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	1.0	-.9
99.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9

MASS PROPERTIES

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
51.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.6	-.3
52.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.6	-.3
53.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.6	-.3
54.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.6	-.3
55.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.3
56.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.3
57.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.4
58.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.4
59.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
60.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
61.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.6	-.4
62.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
63.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
64.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
65.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
66.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
67.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.6	-.5
68.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6	.8	-.7
69.0	-.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.9	.4	-.9
70.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.8	-.7
71.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.0	1.3	-.7
72.0	.4	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.1	1.0	-.6
73.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.0	.4	-.5
74.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.4	-.5
75.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.4	-.5
76.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.5	-.5
77.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6	.5	-.5
78.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.6	-.5
79.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.6	-.5
80.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.7	-.6
81.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.7	-.6
82.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.9	.8	-.7
83.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.9	-.7
84.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.0	.9	-.8
85.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.1	1.0	-.9
86.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.2	1.0	-.9
87.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
88.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
89.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.2	1.0	-.9
90.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.2	1.0	-.9
91.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.2	1.0	-.9
92.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.1	1.0	-.9
93.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	1.0	-.9
94.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	1.0	-.9
95.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.1	1.0	-.9
96.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	1.0	-.9
97.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	1.0	-.9
98.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	1.0	-.9
99.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9

MASS PROPERTIES

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
101.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
102.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
103.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
104.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
105.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
106.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
107.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.8
108.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.3	1.0	-.9
109.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	2.2	2.0	-1.9
110.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	3.5	3.3	-3.1
111.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	4.3	4.1	-3.8
112.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	4.7	4.3	-4.0
113.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	4.3	3.9	-3.6
114.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	3.5	3.1	-2.7
115.0	.4	.0	.0	.0	.0	.0	.1	.0	.0	.0	2.1	2.5	2.1	-1.7
116.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.6	1.1	-.8
117.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.1	.7	-.4
118.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.1	.7	-.4
119.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.3	1.0	-.7
120.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.7	1.4	-1.1
121.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.8	1.6	-1.4
122.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.8	1.5	-1.3
123.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.7	1.4	-1.3
124.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
125.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
126.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
127.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
128.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
129.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
130.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.3
140.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.7	2.2	-1.4
150.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.6	2.3	-1.6
160.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.7	2.4	-1.6
170.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.7	2.6	-1.7
180.0	.8	.0	.0	.0	.0	.0	.1	.0	.0	.0	.9	1.8	2.6	-1.7
190.0	.8	.0	.0	.0	.0	.0	.2	.0	.0	.0	1.2	2.0	2.4	-1.6
200.0	.7	.0	.0	.0	.0	.0	.2	.0	.0	.0	1.4	2.1	2.2	-1.5
210.0	.6	.0	.0	.0	.0	.0	.1	.0	.0	.0	1.6	2.2	2.1	-1.5
220.0	.5	.0	.0	.0	.0	.0	.1	.0	.0	.0	1.7	2.3	1.9	-1.4
230.0	.5	.0	.0	.0	.0	.0	.1	.0	.0	.0	1.9	2.3	1.8	-1.3
240.0	.4	.0	.0	.0	.0	.0	.1	.0	.0	.0	2.0	2.4	1.6	-1.2
250.0	.3	.0	.0	.0	.0	.0	.1	.0	.0	.0	2.1	2.4	1.4	-1.0
260.0	.3	.0	.0	.0	.0	.0	.1	.0	.0	.0	2.1	2.4	1.2	-.9
270.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	2.1	2.4	1.0	-.8
280.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	2.1	2.3	.9	-.7
290.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	2.1	2.3	.8	-.6
300.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	2.1	.6	-.5
310.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.8	.5	-.4
320.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.5	.4	-.4

MASS PROPERTIES

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
101.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
102.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
103.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
104.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
105.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
106.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.9
107.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-.8
108.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.3	1.0	-.9
109.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	2.2	2.0	-1.9
110.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	3.5	3.3	-3.1
111.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	4.3	4.1	-3.8
112.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	4.7	4.3	-4.0
113.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	4.3	3.9	-3.6
114.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	3.5	3.1	-2.7
115.0	.4	.0	.0	.0	.0	.0	-.1	.0	.0	.0	2.1	2.5	2.1	-1.7
116.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.6	1.1	-.8
117.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.1	.7	-.4
118.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.1	.7	-.4
119.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.3	1.0	-.7
120.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.7	1.4	-1.1
121.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.8	1.6	-1.4
122.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.8	1.5	-1.3
123.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.7	1.4	-1.3
124.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
125.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
126.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
127.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
128.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
129.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.2
130.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.6	1.4	-1.3
140.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.7	2.2	-1.4
150.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.6	2.3	-1.6
160.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.7	2.4	-1.6
170.0	.5	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.8	1.7	2.6	-1.7
180.0	.4	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.9	1.8	2.6	-1.7
190.0	.3	.0	.0	.0	.0	.0	-.1	.0	.0	.0	1.2	2.0	2.4	-1.6
200.0	.2	.0	.0	.0	.0	.0	-.1	.0	.0	.0	1.4	2.1	2.2	-1.5
210.0	.1	.0	.0	.0	.0	.0	-.1	.0	.0	.0	1.6	2.2	2.1	-1.5
220.0	.0	.0	.0	.0	.0	.0	-.1	.0	.0	.0	1.7	2.3	1.9	-1.4
230.0	.0	.0	.0	.0	.0	.0	-.1	.0	.0	.0	1.9	2.3	1.8	-1.3
240.0	.0	.0	.0	.0	.0	.0	-.1	.0	.0	.0	2.0	2.4	1.6	-1.2
250.0	.0	.0	.0	.0	.0	.0	-.1	.0	.0	.0	2.1	2.4	1.4	-1.0
260.0	.0	.0	.0	.0	.0	.0	-.1	.0	.0	.0	2.1	2.4	1.2	-.9
270.0	.0	.0	.0	.0	.0	.0	-.1	.0	.0	.0	2.1	2.4	1.0	-.8
280.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	2.3	.9	-.7
290.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	2.3	.8	-.6
300.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	2.1	.6	-.5
310.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.8	.5	-.4
320.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.5	.4	-.4

MASS PROPERTIES

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	.3	-.3
340.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.2	.2	-.2
350.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.1	.1	-.2
360.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.1	.1	-.3
370.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.1	.3	-.4
380.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.2	.5	-.6
390.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.3	.6	-.8
400.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.3	.8	-1.0
410.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.4	1.0	-1.2
420.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.4	1.2	-1.4
430.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.5	1.4	-1.6
440.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.5	1.6	-1.8
450.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.6	1.7	-1.9
460.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	1.6	1.9	-2.0
470.0	-.1	.0	.0	.0	.0	.0	-.1	.0	.0	.0	1.8	1.7	2.0	-2.1

MASS PROPERTIES

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	.3	-.3
340.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.2	.2	-.2
350.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.1	.1	-.2
360.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.1	.1	-.3
370.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.1	.3	-.4
380.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.2	.5	-.6
390.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.3	.6	-.8
400.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.3	.8	-1.0
410.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.4	1.0	-1.2
420.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.4	1.2	-1.4
430.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.5	1.4	-1.6
440.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.5	1.6	-1.8
450.0	-.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.6	1.7	-1.9
460.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	1.6	1.9	-2.0
470.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	1.7	2.0	-2.1

GN/C

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	9.6	.0	.0	.0	.0	.0	.0	.0	.0	1.0	9.6	.7	7.9
2.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.5	4.1	.3	3.3
3.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.5	2.8	.3	1.9
4.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.6	2.3	.4	1.2
5.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.9	.5	.7
6.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.7	.6	.4
7.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.5	.6	.2
8.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.2	.6	-.2
9.0	.1	.0	.0	.0	.0	-.1	.0	.0	.0	.8	.9	.6	-.5
10.0	.4	.0	.0	.0	.0	-.2	.0	.0	.0	.7	1.1	.7	-.3
11.0	.6	.0	.0	.0	.1	-.2	.0	.0	.0	.8	1.4	.7	-.1
12.0	.9	.0	.0	.0	.1	-.3	.0	.0	.0	.9	1.7	.8	.1
13.0	.9	.0	.0	.0	.1	-.3	.0	.0	.0	.9	1.9	.8	.1
14.0	.9	.0	.0	.0	.1	-.4	.0	.0	.0	1.0	1.9	.8	.1
15.0	.8	.0	.0	.0	.0	-.4	.0	.0	.0	1.0	1.8	.9	-.1
16.0	.5	.0	.0	.1	.0	-.4	.0	.0	.0	1.0	1.5	.9	-.4
17.0	.2	.0	.0	.1	.0	-.4	.0	.0	.0	1.0	1.2	.8	-.6
18.0	.0	.0	.0	.1	.0	-.3	.0	.0	.0	.9	.9	.8	-.8
19.0	.1	.0	.0	.1	.0	-.3	.0	.0	.0	.8	.8	.7	-.6
20.0	.2	.0	.0	.1	.0	-.3	.0	.0	.0	.7	.9	.6	-.4
21.0	.3	.0	.0	.1	-.1	-.2	.0	.0	.0	.7	1.0	.6	-.3
22.0	.3	.0	.0	.1	-.1	-.2	.0	.0	.0	.7	1.0	.6	-.2
23.0	.3	.0	.0	.1	-.1	-.2	.0	.0	.0	.6	1.0	.5	-.2
24.0	.3	.0	.0	.1	-.1	-.2	.0	.0	.0	.6	.9	.5	-.2
25.0	.3	.0	.0	.0	-.1	-.2	.0	.0	.0	.6	.9	.5	-.1
26.0	.3	.0	.1	.0	.0	-.2	.0	.0	.0	.6	.9	.4	-.1
27.0	.3	.0	.2	.0	.0	-.1	.0	.0	.0	.5	.9	.4	-.1
28.0	.3	.0	.2	.0	.0	-.1	.0	.0	.0	.6	.9	.5	-.2
29.0	.3	.0	.3	.0	.0	-.1	.0	.0	.0	.6	.9	.5	-.2
30.0	.3	.0	.3	.0	.0	-.1	.0	.0	.0	.6	.9	.5	-.2
31.0	.3	.0	.4	.0	.0	-.1	.0	.0	.0	.7	.9	.6	-.3
32.0	.2	.0	.4	.0	.0	-.1	.0	.0	.0	.7	.9	.6	-.4
33.0	.2	.0	.4	.0	.0	-.1	.0	.0	.0	.7	.9	.7	-.4
34.0	.2	.0	.4	.0	.0	-.1	.0	.0	.0	.7	1.0	.7	-.5
35.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.8	1.0	.8	-.5
36.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
37.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
38.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.8	1.0	.7	-.5
39.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.5
40.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
41.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
42.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
43.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
44.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
45.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
46.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.5	.8	.5	-.2
47.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.2
48.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
49.0	.2	.1	.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3

GN/C

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	8.6	.0	.0	.0	.0	.0	.0	.0	.0	1.0	9.6	.7	7.9
2.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.5	4.1	.3	3.3
3.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.5	2.8	.3	1.9
4.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.6	2.3	.4	1.2
5.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.9	.5	.7
6.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.7	.6	.4
7.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.5	.6	.2
8.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.2	.6	-.2
9.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.8	.9	.6	-.5
10.0	.4	.0	.0	.0	.0	.2	.0	.0	.0	.7	1.1	.7	-.3
11.0	.6	.0	.0	.0	-.1	.2	.0	.0	.0	.8	1.4	.7	-.1
12.0	.9	.0	.0	.0	-.1	.3	.0	.0	.0	.9	1.7	.8	.1
13.0	.9	.0	.0	.0	-.1	.3	.0	.0	.0	.9	1.9	.8	.1
14.0	.9	.0	.0	.0	-.1	.4	.0	.0	.0	1.0	1.9	.8	.1
15.0	.8	.0	.0	.0	.0	.4	.0	.0	.0	1.0	1.8	.9	-.1
16.0	.5	.0	.0	-.1	.0	.4	.0	.0	.0	1.0	1.5	.9	-.4
17.0	.2	.0	.0	-.1	.0	.4	.0	.0	.0	1.0	1.2	.8	-.6
18.0	.0	.0	.0	-.1	.0	.3	.0	.0	.0	.9	.9	.8	-.8
19.0	.1	.0	.0	-.1	.0	.3	.0	.0	.0	.8	.8	.7	-.6
20.0	.2	.0	.0	-.1	.0	.3	.0	.0	.0	.7	.9	.6	-.4
21.0	.3	.0	.0	-.1	.1	.2	.0	.0	.0	.7	1.0	.6	-.3
22.0	.3	.0	.0	-.1	.1	.2	.0	.0	.0	.7	1.0	.6	-.2
23.0	.3	.0	.0	-.1	.1	.2	.0	.0	.0	.6	1.0	.5	-.2
24.0	.3	.0	.0	-.1	.1	.2	.0	.0	.0	.6	.9	.5	-.2
25.0	.3	.0	.0	.0	.1	.2	.0	.0	.0	.6	.9	.5	-.1
26.0	.3	.0	-.1	.0	.0	.2	.0	.0	.0	.6	.9	.4	-.1
27.0	.3	.0	-.2	.0	.0	.1	.0	.0	.0	.5	.9	.4	-.1
28.0	.3	.0	-.2	.0	.0	.1	.0	.0	.0	.6	.9	.5	-.2
29.0	.3	.0	-.3	.0	.0	.1	.0	.0	.0	.6	.9	.5	-.2
30.0	.3	.0	-.3	.0	.0	.1	.0	.0	.0	.6	.9	.5	-.2
31.0	.3	.0	-.4	.0	.0	.1	.0	.0	.0	.7	.9	.6	-.3
32.0	.2	.0	-.4	.0	.0	.1	.0	.0	.0	.7	.9	.6	-.4
33.0	.2	.0	-.4	.0	.0	.1	.0	.0	.0	.7	.9	.7	-.4
34.0	.2	.0	-.4	.0	.0	.1	.0	.0	.0	.7	1.0	.7	-.5
35.0	.2	.0	-.5	.0	.0	.0	.0	.0	.0	.8	1.0	.8	-.5
36.0	.2	.0	-.5	.0	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
37.0	.2	.0	-.5	.0	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
38.0	.2	.0	-.4	.0	.0	.0	.0	.0	.0	.8	1.0	.7	-.5
39.0	.2	.0	-.4	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.5
40.0	.1	.0	-.3	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
41.0	.2	.0	-.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
42.0	.2	.0	-.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
43.0	.2	.0	-.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
44.0	.2	.0	-.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
45.0	.2	.0	-.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
46.0	.2	.0	-.3	.0	.0	.0	.0	.0	.0	.5	.8	.5	-.2
47.0	.3	.0	-.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.2
48.0	.2	.0	-.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
49.0	.2	-.1	-.2	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3

GN/C

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	.2	.1	.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
51.0	.2	.1	.3	.0	.0	.0	.0	.0	.0	.6	.8	.6	-.3
52.0	.3	.1	.3	.0	.0	.0	.0	.0	.0	.6	.9	.6	-.3
53.0	.3	.1	.2	.0	.0	.0	.0	.0	.0	.6	.9	.6	-.3
54.0	.3	.1	.2	.0	.0	.0	.0	.0	.0	.6	.9	.6	-.3
55.0	.3	.1	.2	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.3
56.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.3
57.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.4
58.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.4
59.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
60.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
61.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.6	.8	.6	-.4
62.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
63.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
64.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
65.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
66.0	.1	.1	.0	.0	.0	-.1	.0	.0	.0	.6	.7	.5	-.4
67.0	.1	.1	.0	.0	.0	-.1	.0	.0	.0	.6	.6	.6	-.5
68.0	.0	.1	.0	.0	.0	-.1	.0	.0	.0	.5	.6	.8	-.7
69.0	-.4	.2	.0	.0	.0	-.1	.0	.0	.0	1.4	.9	.4	-.9
70.0	.0	-.2	-.2	.1	.0	.0	.0	.0	.0	.8	.8	.8	-.7
71.0	.6	.0	-.1	.1	.0	.0	.0	.0	.0	.4	1.0	1.3	-.7
72.0	.4	.2	.0	.1	.0	-.1	.0	.0	.1	.8	1.1	1.0	-.6
73.0	-.1	.1	-.1	.1	.0	-.1	.0	.0	.0	1.1	1.0	.4	-.5
74.0	-.1	.1	-.2	.0	.0	-.1	.0	.0	.0	.8	.8	.4	-.5
75.0	.0	.1	-.3	.0	.0	-.1	.0	.0	.0	.5	.5	.4	-.5
76.0	.0	.1	-.3	.0	.0	-.1	.0	.0	.0	.5	.5	.5	-.5
77.0	.1	.1	-.3	.0	.0	-.1	.0	.0	.0	.5	.6	.5	-.5
78.0	.1	.1	-.4	.0	-.1	-.1	.0	.0	.0	.6	.6	.6	-.5
79.0	.1	.1	-.5	.0	-.1	-.1	.0	.0	.0	.6	.7	.6	-.5
80.0	.1	.1	-.5	.0	-.1	-.1	.0	.0	.0	.7	.7	.7	-.6
81.0	.1	.1	-.6	.0	-.1	-.1	.0	.0	.0	.7	.8	.7	-.6
82.0	.1	.1	-.7	.0	-.1	-.1	.0	.0	.0	.8	.9	.8	-.7
83.0	.1	.1	-.7	.0	-.1	-.1	.0	.0	.0	.8	1.0	.9	-.7
84.0	.1	.1	-.8	.0	-.1	-.1	.0	.0	.0	.9	1.0	.9	-.8
85.0	.1	.1	-.9	.0	-.1	-.1	.0	.0	.0	1.0	1.1	1.0	-.9
86.0	.1	.1	-.9	.0	-.1	-.1	.0	.0	.0	1.0	1.2	1.0	-.9
87.0	.1	.1	-.9	.0	-.1	-.1	.0	.0	.0	1.1	1.2	1.0	-.9
88.0	.1	.1	-.9	.0	-.1	-.1	.0	.0	.0	1.1	1.2	1.0	-.9
89.0	.1	.1	-.9	.0	-.1	-.1	.0	.0	.0	1.0	1.2	1.0	-.9
90.0	.1	.1	-.9	.0	-.1	-.1	.0	.0	.0	1.0	1.2	1.0	-.9
91.0	.1	.1	-.9	.0	-.1	-.1	.0	.0	.0	1.0	1.2	1.0	-.9
92.0	.1	.2	-.9	.0	-.1	-.1	.0	.0	.0	1.0	1.1	1.0	-.9
93.0	.1	.2	-.9	.0	-.1	-.1	.0	.0	.0	1.1	1.1	1.0	-.9
94.0	.1	.1	-.9	.0	-.1	-.1	.0	.0	.0	1.1	1.1	1.0	-.9
95.0	.1	.1	-.9	.0	-.1	-.1	.0	.0	.0	1.0	1.1	1.0	-.9
96.0	.1	.2	-.8	.0	-.1	-.1	.0	.0	.0	1.1	1.1	1.0	-.9
97.0	.1	.2	-.8	.0	-.1	-.1	.0	.0	.0	1.1	1.1	1.0	-.9
98.0	.1	.2	-.8	.0	-.1	-.1	.0	.0	.0	1.1	1.1	1.0	-.9
99.0	.1	.1	-.8	.0	-.1	-.1	.0	.0	.0	1.1	1.2	1.0	-.9

GN/C

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	.2	-.1	-.3	.1	.0	.0	.0	.0	.0	.6	.8	.5	-.3
51.0	.2	-.1	-.3	.1	.0	.0	.0	.0	.0	.6	.8	.6	-.3
52.0	.3	-.1	-.3	.1	.0	.0	.0	.0	.0	.6	.9	.6	-.3
53.0	.3	-.1	-.2	.1	.0	.0	.0	.0	.0	.6	.9	.6	-.3
54.0	.3	-.1	-.2	.0	.0	.0	.0	.0	.0	.6	.9	.6	-.3
55.0	.2	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.3
56.0	.2	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.3
57.0	.2	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.4
58.0	.2	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.4
59.0	.2	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
60.0	.2	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
61.0	.2	-.1	-.2	.0	.0	.0	.0	.0	.0	.6	.8	.6	-.4
62.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
63.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
64.0	.1	-.1	-.1	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
65.0	.1	-.1	-.1	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
66.0	.1	-.1	.0	.0	.0	.1	.0	.0	.0	.6	.7	.5	-.4
67.0	.0	-.1	.0	.0	.0	.1	.0	.0	.0	.6	.6	.6	-.5
68.0	.0	-.2	.0	.0	.0	.1	.0	.0	.0	.5	.6	.8	-.7
69.0	-.4	-.1	.0	.0	.0	.1	.0	.0	.0	1.4	.9	.4	-.9
70.0	.0	.2	.2	-.1	.0	.0	.0	.0	.0	.8	.8	.8	-.7
71.0	.6	-.1	.1	.0	.0	.0	.0	.0	.0	.4	1.0	1.3	-.7
72.0	.4	-.3	.0	.0	.0	.1	.0	.0	.0	.8	1.1	1.0	-.6
73.0	-.1	-.1	.2	.0	.0	.1	.0	.0	.0	1.1	1.0	.4	-.5
74.0	-.1	-.1	.2	.0	.0	.1	.0	.0	.0	.8	.8	.4	-.5
75.0	.0	-.1	.3	.0	.0	.1	.0	.0	.0	.5	.5	.4	-.5
76.0	.0	-.1	.3	.0	.0	.1	.0	.0	.0	.5	.5	.5	-.5
77.0	.1	-.1	.3	.0	.0	.1	.0	.0	.0	.5	.6	.5	-.5
78.0	.1	-.1	.4	.0	.1	.1	.0	.0	.0	.6	.6	.6	-.5
79.0	.1	-.1	.5	.0	.1	.1	.0	.0	.0	.6	.7	.6	-.5
80.0	.1	-.1	.5	.0	.1	.1	.0	.0	.0	.7	.7	.7	-.6
81.0	.1	-.2	.6	.0	.1	.1	.0	.0	.0	.7	.8	.7	-.6
82.0	.1	-.2	.7	.0	.1	.1	.0	.0	.0	.8	.9	.8	-.7
83.0	.1	-.2	.7	.0	.1	.1	.0	.0	.0	.8	1.0	.9	-.7
84.0	.1	-.2	.8	.0	.1	.1	.0	.0	.0	.9	1.0	.9	-.8
85.0	.1	-.2	.9	.0	.1	.1	.0	.0	.0	1.0	1.1	1.0	-.9
86.0	.1	-.2	.9	.0	.1	.1	.0	.0	.0	1.0	1.2	1.0	-.9
87.0	.1	-.2	.9	.0	.1	.1	.0	.0	.0	1.1	1.2	1.0	-.9
88.0	.1	-.2	.9	.0	.1	.1	.0	.0	.0	1.1	1.2	1.0	-.9
89.0	.1	-.2	.9	.0	.1	.1	.0	.0	.0	1.0	1.2	1.0	-.9
90.0	.1	-.2	.9	.0	.1	.1	.0	.0	.0	1.0	1.2	1.0	-.9
91.0	.1	-.2	.9	.0	.1	.1	.0	.0	.0	1.0	1.2	1.0	-.9
92.0	.1	-.2	.9	.0	.1	.1	.0	.0	.0	1.0	1.1	1.0	-.9
93.0	.1	-.2	.9	.0	.1	.1	.0	.0	.0	1.1	1.1	1.0	-.9
94.0	.1	-.2	.9	.0	.1	.1	.0	.0	.0	1.1	1.1	1.0	-.9
95.0	.1	-.2	.9	.0	.1	.1	.0	.0	.0	1.0	1.1	1.0	-.9
96.0	.1	-.2	.9	.0	.1	.1	.0	.0	.0	1.1	1.1	1.0	-.9
97.0	.1	-.2	.9	.0	.1	.1	.0	.0	.0	1.1	1.1	1.0	-.9
98.0	.1	-.2	.8	.0	.1	.1	.0	.0	.0	1.1	1.1	1.0	-.9
99.0	.1	-.2	.8	.0	.1	.1	.0	.0	.0	1.1	1.2	1.0	-.9

GN/C

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	.1	.1	-.8	.0	-.1	-.1	.0	.0	.0	1.1	1.2	1.0	-.9
101.0	.1	.1	-.8	.0	-.1	-.1	.0	.0	.0	1.1	1.2	1.0	-.9
102.0	.1	.1	-.8	.0	-.1	-.1	.0	.0	.0	1.1	1.2	1.0	-.9
103.0	.1	.1	-.8	.0	-.1	-.1	.0	.0	.0	1.1	1.2	1.0	-.9
104.0	.1	.1	-.8	.0	-.1	-.1	.0	.0	.0	1.1	1.2	1.0	-.9
105.0	.1	.1	-.8	.0	-.1	-.1	.0	.0	.0	1.1	1.2	1.0	-.9
106.0	.1	.1	-.8	.0	-.1	-.1	.0	.0	.0	1.1	1.2	1.0	-.9
107.0	.1	.1	-.8	.0	-.1	-.1	.0	.0	.0	1.1	1.2	1.0	-.8
108.0	.1	.1	-.7	.0	-.1	-.1	.0	.0	.0	1.2	1.3	1.0	-.9
109.0	.1	.1	-.7	.0	-.1	-.1	.0	.0	.0	2.1	2.2	2.0	-1.9
110.0	.2	.1	-.5	.0	.0	-.1	.0	.0	.0	3.3	3.5	3.3	-3.1
111.0	.3	.1	-.4	.0	.0	-.1	.0	.0	.0	4.1	4.3	4.1	-3.8
112.0	.3	.1	-.2	.0	.0	-.1	.0	.0	.0	4.3	4.7	4.3	-4.0
113.0	.4	.1	.0	.0	.0	-.1	.0	.0	.0	3.9	4.3	3.9	-3.6
114.0	.4	.1	.1	.0	.1	-.1	.0	.0	.0	3.1	3.5	3.1	-2.7
115.0	.4	.1	.2	.0	.1	-.1	.0	.0	.0	2.1	2.5	2.1	-1.7
116.0	.4	.1	.2	.0	.1	-.1	.0	.0	.0	1.2	1.6	1.1	-.8
117.0	.4	.1	.1	.0	.1	-.1	.0	.0	.0	.8	1.1	.7	-.4
118.0	.3	.1	-.2	.0	.1	-.1	.0	.0	.0	.8	1.1	.7	-.4
119.0	.3	.1	-.4	.0	.1	-.1	.0	.0	.0	1.0	1.3	1.0	-.7
120.0	.2	.1	-.6	.0	.1	-.1	.0	.0	.0	1.4	1.7	1.4	-1.1
121.0	.2	.1	-.8	.0	.1	-.1	.0	.0	.0	1.6	1.8	1.6	-1.4
122.0	.2	.2	-.8	.0	.1	-.1	.0	.0	.0	1.6	1.8	1.5	-1.3
123.0	.2	.1	-.8	.0	.1	-.1	.0	.0	.0	1.5	1.7	1.4	-1.3
124.0	.2	.1	-.8	.0	.1	-.1	.0	.0	.0	1.4	1.6	1.4	-1.2
125.0	.2	.1	-.8	.0	.1	-.1	.0	.0	.0	1.4	1.6	1.4	-1.2
126.0	.2	.1	-.8	.0	.1	-.1	.0	.0	.0	1.4	1.6	1.4	-1.2
127.0	.2	.1	-.8	.0	.1	-.1	.0	.0	.0	1.4	1.6	1.4	-1.2
128.0	.2	.2	-.8	.0	.1	-.1	.0	.0	.0	1.4	1.6	1.4	-1.2
129.0	.1	.2	-.8	.0	.1	-.1	.0	-.1	.0	1.4	1.6	1.4	-1.2
130.0	.1	.2	-.9	.0	.1	-.1	.0	-.1	-.1	1.4	1.6	1.4	-1.3
140.0	.0	.2	-1.5	.0	.1	-.1	-.2	-.1	-.8	.9	1.7	2.2	-1.4
150.0	.7	.1	-1.6	.0	.0	-.1	-.4	-.1	-.9	.9	1.6	2.3	-1.6
160.0	.8	.1	-1.6	.0	-.1	-.1	-.5	-.1	-.9	.9	1.7	2.4	-1.6
170.0	.9	.1	-1.6	.0	-.2	-.2	-.5	-.1	-.9	.8	1.7	2.6	-1.7
180.0	.9	.2	-1.6	.0	-.2	-.3	-.6	-.1	-.9	.9	1.8	2.6	-1.7
190.0	.9	.3	-1.4	.0	-.2	-.2	-.5	-.1	-.8	1.2	2.0	2.4	-1.6
200.0	.7	.3	-1.3	.0	-.2	-.2	-.5	-.1	-.6	1.4	2.1	2.2	-1.5
210.0	.6	.3	-1.2	.0	-.2	-.2	-.4	-.1	-.6	1.6	2.2	2.1	-1.5
220.0	.5	.3	-1.0	.0	-.2	-.2	-.4	-.1	-.5	1.7	2.3	1.9	-1.4
230.0	.5	.2	-.9	.0	-.2	-.2	-.3	-.1	-.4	1.9	2.3	1.8	-1.3
240.0	.4	.2	-.9	.0	-.1	-.1	-.3	-.1	-.3	2.0	2.4	1.6	-1.2
250.0	.3	.2	-.7	.0	-.1	-.1	-.3	-.1	-.2	2.1	2.4	1.4	-1.0
260.0	.3	.2	-.6	.0	-.1	-.1	-.2	-.1	-.1	2.1	2.4	1.2	-.9
270.0	.2	.2	-.5	.0	-.1	-.1	-.2	-.1	-.1	2.1	2.4	1.0	-.8
280.0	.2	.1	-.5	.0	-.1	-.1	-.2	.0	.0	2.1	2.3	.9	-.7
290.0	.1	.1	-.4	.0	-.1	-.1	-.1	.0	.1	2.1	2.3	.8	-.6
300.0	.1	.1	-.3	.0	-.1	-.1	-.1	.0	.1	2.0	2.1	.6	-.5
310.0	.1	.1	-.2	.0	.0	.0	-.1	.0	.2	1.7	1.8	.5	-.4
320.0	.1	.1	-.1	.0	.0	.0	-.1	.0	.2	1.5	1.5	.4	-.4

GN/C

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	.1	-.2	.8	.0	.1	.1	.0	.0	.0	1.1	1.2	1.0	-.9
101.0	.1	-.2	.8	.0	.1	.1	.0	.0	.0	1.1	1.2	1.0	-.9
102.0	.1	-.2	.8	.0	.1	.1	.0	.0	.0	1.1	1.2	1.0	-.9
103.0	.1	-.1	.8	.0	.1	.1	.0	.0	.0	1.1	1.2	1.0	-.9
104.0	.1	-.2	.8	.0	.1	.1	.0	.0	.0	1.1	1.2	1.0	-.9
105.0	.1	-.2	.8	.0	.1	.1	.0	.0	.0	1.1	1.2	1.0	-.9
106.0	.1	-.2	.8	.0	.1	.1	.0	.0	.0	1.1	1.2	1.0	-.9
107.0	.1	-.2	.8	.0	.1	.1	.0	.0	.0	1.1	1.2	1.0	-.8
108.0	.1	-.2	.8	.0	.1	.1	.0	.0	.0	1.2	1.3	1.0	-.9
109.0	.1	-.1	.7	.0	.1	.1	.0	.0	.0	2.1	2.2	2.0	-1.9
110.0	.2	-.1	.5	.0	.0	.1	.0	.0	.0	3.3	3.5	3.3	-3.1
111.0	.3	-.1	.4	.0	.0	.1	.0	.0	.0	4.1	4.3	4.1	-3.8
112.0	.3	-.1	.2	.0	.0	.1	.0	.0	.0	4.3	4.7	4.3	-4.0
113.0	.4	-.1	.1	.0	.0	.1	.0	.0	.0	3.9	4.3	3.9	-3.6
114.0	.4	-.1	-.1	.0	.0	.1	.0	.0	.0	3.1	3.5	3.1	-2.7
115.0	.4	-.1	-.2	.0	-.1	.1	.0	.0	.0	2.1	2.5	2.1	-1.7
116.0	.4	-.1	-.2	.0	-.1	.1	.0	.0	.0	1.2	1.6	1.1	-.8
117.0	.4	-.1	-.1	.0	-.1	.1	.0	.0	.0	.8	1.1	.7	-.4
118.0	.3	-.2	.2	.0	-.1	.1	.0	.0	.0	.8	1.1	.7	-.4
119.0	.3	-.2	.4	.0	-.1	.1	.0	.0	.0	1.0	1.3	1.0	-.7
120.0	.2	-.2	.6	.0	-.1	.1	.0	.0	.0	1.4	1.7	1.4	-1.1
121.0	.2	-.2	.8	.0	-.1	.1	.0	.0	.0	1.6	1.8	1.6	-1.4
122.0	.2	-.1	.8	.0	-.1	.1	.0	.0	.0	1.6	1.8	1.5	-1.3
123.0	.2	-.1	.8	.0	-.1	.1	.0	.0	.0	1.5	1.7	1.4	-1.3
124.0	.2	-.1	.9	.0	-.1	.1	.0	.0	.0	1.4	1.6	1.4	-1.2
125.0	.2	-.1	.8	.0	-.1	.1	.0	.0	.0	1.4	1.6	1.4	-1.2
126.0	.2	-.2	.8	.0	-.1	.1	.0	.0	.0	1.4	1.6	1.4	-1.2
127.0	.2	-.2	.8	.0	-.1	.1	.0	.0	.0	1.4	1.6	1.4	-1.2
128.0	.2	-.2	.8	.0	-.1	.1	.0	.0	.0	1.4	1.6	1.4	-1.2
129.0	.1	-.2	.8	.0	-.1	.1	.0	.1	.0	1.4	1.6	1.4	-1.2
130.0	.1	-.1	.8	.0	-.1	.1	.0	.1	.0	1.4	1.6	1.4	-1.3
140.0	.8	-.2	.7	.0	-.1	.1	.0	.1	.0	.9	1.7	2.2	-1.4
150.0	.7	-.1	.8	.0	-.1	.1	.0	.1	.0	.9	1.6	2.3	-1.6
160.0	.6	-.2	.7	.0	-.1	.1	.0	.1	.0	.9	1.7	2.4	-1.6
170.0	.9	-.4	.7	.0	-.1	.1	.0	.0	.0	.8	1.7	2.6	-1.7
180.0	.8	-.4	.7	.0	.0	.1	.1	.1	.1	.9	1.8	2.6	-1.7
190.0	.8	-.3	.8	.0	.1	.2	.2	.1	.2	1.2	2.0	2.4	-1.6
200.0	.7	-.3	.9	.1	.2	.3	.3	.1	.3	1.4	2.1	2.2	-1.5
210.0	.6	-.3	1.0	.2	.3	.2	.4	.1	.4	1.6	2.2	2.1	-1.5
220.0	.5	-.3	1.0	.2	.3	.2	.5	.1	.5	1.7	2.3	1.9	-1.4
230.0	.5	-.2	1.1	.2	.3	.2	.6	.1	.6	1.9	2.3	1.8	-1.3
240.0	.4	-.2	1.2	.2	.3	.2	.7	.1	.7	2.0	2.4	1.6	-1.2
250.0	.3	-.2	1.2	.2	.2	.2	.8	.1	.8	2.1	2.4	1.4	-1.0
260.0	.3	-.2	1.2	.2	.2	.1	.7	.1	.8	2.1	2.4	1.2	-.9
270.0	.2	-.1	1.3	.1	.2	.1	.6	.1	.9	2.1	2.4	1.0	-.8
280.0	.2	-.1	1.4	.1	.2	.1	.6	.0	1.0	2.1	2.3	.9	-.7
290.0	.1	-.1	1.4	.1	.1	.1	.5	.0	1.1	2.1	2.3	.8	-.6
300.0	.1	-.1	1.4	.1	.1	.1	.4	.0	.9	2.0	2.1	.6	-.5
310.0	.1	-.1	1.2	.0	.1	.1	.3	.0	.7	1.7	1.8	.5	-.4
320.0	.1	.0	1.0	.0	.1	.0	.3	.0	.5	1.5	1.5	.4	-.4

GN/C

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	.1	.0	-.1	.0	.0	.0	.0	.0	.3	1.3	1.3	.3	-.3
340.0	-.1	.0	.0	.0	.0	.0	.0	.0	.4	1.3	1.2	.2	-.2
350.0	-.1	.0	.0	.0	.0	.0	.0	.0	.4	1.2	1.1	.1	-.2
360.0	-.1	.0	.1	.0	.0	.0	.0	.0	.4	1.2	1.1	.1	-.3
370.0	-.1	.0	.1	.0	.0	.0	.0	.0	.5	1.3	1.1	.3	-.4
380.0	-.2	.0	.2	.0	.0	.0	.1	.0	.5	1.4	1.2	.5	-.6
390.0	-.2	.0	.2	.0	.0	.0	.1	.0	.6	1.4	1.3	.6	-.8
400.0	-.2	-.1	.3	.0	.0	.0	.1	.0	.6	1.5	1.3	.8	-1.0
410.0	-.2	-.1	.3	.0	.0	.1	.1	.0	.6	1.5	1.4	1.0	-1.2
420.0	-.2	-.1	.4	.0	.1	.1	.1	.0	.7	1.6	1.4	1.2	-1.4
430.0	-.2	-.1	.4	.0	.1	.1	.1	.0	.7	1.7	1.5	1.4	-1.6
440.0	-.2	-.1	.5	.0	.1	.1	.1	.0	.7	1.7	1.5	1.6	-1.8
450.0	-.2	-.1	.5	.0	.1	.1	.2	.0	.8	1.7	1.6	1.7	-1.9
460.0	-.1	-.1	.5	.0	.1	.1	.2	.0	.8	1.8	1.6	1.9	-2.0
470.0	-.1	-.1	.6	.0	.1	.1	.2	.0	.8	1.8	1.7	2.0	-2.1

GN/C

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	.0	.0	.9	.0	.1	.0	.2	.0	.3	1.3	1.3	.3	-.3
340.0	-.1	.0	.6	.0	.0	.0	.2	.0	.2	1.3	1.2	.2	-.2
350.0	-.1	.0	.4	.0	.0	.0	.1	.0	.0	1.2	1.1	.1	-.2
360.0	-.1	.0	.3	.0	.0	.0	.1	.0	-.1	1.2	1.1	.1	-.3
370.0	-.1	.0	.1	.0	.0	.0	.0	.0	-.3	1.3	1.1	.3	-.4
380.0	-.2	.0	-.1	.0	.0	.0	.0	.0	-.4	1.4	1.2	.5	-.6
390.0	-.3	.1	-.2	.0	.0	.0	-.1	.0	-.6	1.4	1.3	.6	-.8
400.0	-.3	.1	-.4	.0	.0	-.1	-.1	.0	-.7	1.5	1.3	.8	-1.0
410.0	-.2	.1	-.5	.0	-.1	-.1	-.2	.0	-.8	1.5	1.4	1.0	-1.2
420.0	-.2	.1	-.6	.0	-.1	-.1	-.2	.0	-.9	1.6	1.4	1.2	-1.4
430.0	-.2	.1	-.7	.0	-.1	-.1	-.2	.0	-1.0	1.7	1.5	1.4	-1.6
440.0	-.2	.1	-.9	.0	-.1	-.1	-.3	.0	-1.1	1.7	1.5	1.6	-1.8
450.0	-.2	.1	-1.0	.0	-.1	-.1	-.3	.0	-1.2	1.7	1.6	1.7	-1.9
460.0	-.1	.1	-1.1	.0	-.1	-.1	-.3	.0	-1.3	1.8	1.6	1.9	-2.0
470.0	-.1	.1	-1.2	.0	-.1	-.1	-.4	.0	-1.4	1.8	1.7	2.0	-2.1

APPENDIX G—MISSION 4 (WTR)

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	AHI POS NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
27.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
29.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
30.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.2
31.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.2
32.0	.3	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.2
33.0	.3	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3
34.0	.4	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3
35.0	.4	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3
36.0	.5	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4
37.0	.5	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4
38.0	.6	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	.1	.5
39.0	.6	-.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.8	.1	.5
40.0	.7	-.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.8	.1	.6
41.0	.8	-.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.9	.1	.6
42.0	.9	-.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	1.0	.2	.7
43.0	.9	-.2	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	1.1	.2	.8
44.0	1.0	-.2	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	1.2	.2	.8
45.0	1.1	-.2	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	1.3	.2	.9
46.0	1.2	-.2	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	1.4	.2	1.0
47.0	1.3	-.2	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	1.6	.2	1.1
48.0	1.4	-.2	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	1.7	.2	1.2
49.0	1.5	-.2	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.3	1.8	.3	1.3

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	AHI NEG NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
27.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
29.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
30.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.2
31.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.2
32.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.2
33.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3
34.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3
35.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3
36.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4
37.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4
38.0	.6	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.7	.1	.5
39.0	.6	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.8	.1	.5
40.0	.7	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.8	.1	.6
41.0	.8	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.9	.1	.6
42.0	.9	.1	.0	.0	-.1	.0	.1	.0	.0	.0	.0	.0	.2	1.0	.2	.7
43.0	.9	.1	.0	.0	-.1	.0	.1	.0	.0	.0	.0	.0	.2	1.1	.2	.8
44.0	1.0	.1	.0	.0	-.1	.0	.1	.0	.0	.0	.0	.0	.2	1.2	.2	.8
45.0	1.1	.1	.0	.0	-.1	.0	.1	.0	.0	.0	.0	.0	.2	1.3	.2	.9
46.0	1.2	.2	.0	.0	-.1	.0	.1	.0	.0	.0	.0	.0	.2	1.4	.2	1.0
47.0	1.3	.2	.0	.0	-.1	.0	.1	.0	.0	.0	.0	.0	.3	1.6	.2	1.1
48.0	1.4	.2	.0	.0	-.1	.0	.2	.0	.0	.0	.0	.0	.3	1.7	.2	1.2
49.0	1.5	.2	.0	.0	-.1	.0	.2	.0	.0	.0	.0	.0	.3	1.8	.3	1.3

PROPULSION

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	1.6	-.3	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.3	2.0	.3	1.3
51.0	1.7	-.3	.0	.1	.0	.0	.2	.2	.0	.0	.0	.0	.4	2.1	.3	1.4
52.0	1.9	-.3	.0	.1	.1	.0	.2	.2	.0	.0	.0	.0	.4	2.2	.3	1.5
53.0	2.0	-.3	.0	.1	.1	.0	.2	.2	.0	.0	.0	.0	.4	2.4	.3	1.7
54.0	2.1	-.3	.0	.1	.1	.0	.2	.2	.0	.0	.0	.0	.4	2.6	.4	1.8
55.0	2.3	-.3	.0	.1	.1	.0	.2	.2	.0	.0	.0	.0	.5	2.7	.4	1.9
56.0	2.4	-.4	.0	.1	.1	.0	.2	.3	.0	.0	.0	.0	.5	2.9	.4	2.0
57.0	2.6	-.4	.0	.1	.1	.0	.2	.3	.0	.0	.0	.0	.5	3.1	.4	2.1
58.0	2.7	-.4	.0	.1	.1	.0	.2	.3	.0	.0	.0	.0	.6	3.3	.5	2.3
59.0	2.9	-.4	.0	.1	.1	.0	.3	.3	.0	.0	.0	.0	.6	3.5	.5	2.4
60.0	3.1	-.5	.0	.1	.1	.0	.3	.3	.0	.0	.0	.0	.7	3.8	.5	2.5
61.0	3.3	-.5	.0	.1	.1	.0	.3	.3	.0	.0	.0	.0	.7	4.0	.6	2.7
62.0	3.5	-.6	.0	.1	.1	.0	.3	.3	.0	.0	.0	.0	.8	4.3	.6	2.9
63.0	3.8	-.6	.0	.1	.2	.0	.3	.3	.0	.0	.0	.0	.9	4.6	.7	3.1
64.0	4.0	-.7	.0	.1	.2	.0	.3	.3	.0	.0	.0	.0	.9	5.0	.8	3.3
65.0	4.4	-.8	.0	.2	.2	.0	.3	.3	.0	.0	.0	.0	1.0	5.3	.9	3.5
66.0	4.7	-.8	.0	.2	.2	.0	.3	.3	.1	.0	.0	.0	1.1	5.8	1.0	3.8
67.0	5.1	-.9	.0	.2	.3	.0	.2	.3	.1	.0	.0	.0	1.1	6.2	1.0	4.0
68.0	5.5	-1.0	.0	.2	.3	.0	.2	.3	.1	.0	.0	.0	1.2	6.7	1.2	4.4
69.0	6.0	-1.1	.0	.2	.3	.0	.2	.3	.1	.0	.0	.0	1.3	7.3	1.3	4.7
70.0	6.5	-1.2	.0	.2	.4	.0	.2	.3	.1	.0	.0	.0	1.5	7.9	1.4	5.1
71.0	7.0	-1.3	.0	.3	.4	.0	.2	.3	.1	.0	.0	.0	1.6	8.6	1.5	5.5
72.0	7.6	-1.5	.0	.3	.4	.0	.1	.3	.1	.0	.0	.0	1.7	9.3	1.6	6.0
73.0	8.3	-1.6	.0	.3	.5	.0	.1	.3	.1	.0	.0	.0	1.8	10.1	1.8	6.5
74.0	9.0	-1.7	.0	.3	.5	.0	.1	.3	.1	.0	.0	.0	2.0	11.0	1.9	7.1
75.0	9.8	-1.9	.0	.3	.6	.0	.1	.3	.1	.0	.0	.0	2.1	11.9	2.1	7.7
76.0	10.6	-2.0	.0	.4	.6	.0	.1	.3	.1	.0	.0	.0	2.3	13.0	2.3	8.4
77.0	11.6	-2.2	.0	.4	.7	.0	.0	.3	.1	.0	.0	.0	2.5	14.0	2.4	9.1
78.0	12.5	-2.4	.0	.4	.7	.1	.0	.3	.2	.0	.0	.0	2.7	15.2	2.6	9.9
79.0	13.6	-2.5	.0	.5	.8	.1	.0	.3	.2	.0	.0	.0	2.9	16.4	2.8	10.8
80.0	14.7	-2.7	.0	.5	.8	.1	-.1	.3	.2	.0	.0	.0	3.0	17.8	3.0	11.7
81.0	15.9	-2.9	.0	.5	.9	.1	-.1	.3	.2	.0	.0	.0	3.2	19.1	3.2	12.7
82.0	17.2	-3.0	.0	.6	.9	.1	-.1	.3	.2	.0	.0	.0	3.4	20.6	3.4	13.8
83.0	18.5	-3.2	.0	.6	1.0	.1	-.1	.3	.2	.0	.1	.0	3.6	22.2	3.6	14.9
84.0	19.9	-3.4	.0	.6	1.1	.1	-.2	.3	.2	.0	.1	.0	3.8	23.8	3.8	16.1
85.0	21.4	-3.6	.0	.7	1.1	.2	-.2	.3	.2	.0	.1	.0	4.0	25.5	4.0	17.4
86.0	23.0	-3.7	.0	.7	1.2	.2	-.2	.3	.3	.0	.1	.0	4.2	27.2	4.2	18.8
87.0	24.6	-3.9	.0	.7	1.3	.2	-.3	.4	.3	.0	.1	.1	4.4	29.1	4.4	20.2
88.0	26.3	-4.1	.0	.8	1.3	.2	-.3	.4	.3	.0	.1	.1	4.6	31.0	4.6	21.7
89.0	28.1	-4.2	.0	.8	1.4	.3	-.4	.4	.3	.0	.1	.1	4.9	33.0	4.8	23.3
90.0	30.0	-4.4	.1	.8	1.5	.3	-.4	.4	.3	.0	.1	.1	5.1	35.0	5.0	24.9
91.0	31.9	-4.5	.1	.9	1.6	.3	-.5	.4	.3	.0	.1	.1	5.3	37.1	5.2	26.7
92.0	33.9	-4.7	.1	.9	1.6	.3	-.5	.4	.4	.0	.1	.1	5.5	39.3	5.4	28.4
93.0	35.9	-4.8	.1	.9	1.7	.4	-.6	.4	.4	.1	.0	.1	5.7	41.6	5.6	30.3
94.0	38.0	-4.9	.1	1.0	1.8	.4	-.6	.5	.4	.1	.0	.1	5.9	43.9	5.8	32.2
95.0	40.1	-5.0	.1	1.0	1.9	.4	-.7	.5	.4	.1	.0	.1	6.1	46.2	5.9	34.2
96.0	42.3	-5.1	.1	1.0	1.9	.5	-.7	.5	.4	.1	.0	.1	6.3	48.6	6.1	36.2
97.0	44.6	-5.1	.1	1.1	2.0	.5	-.8	.5	.5	.1	.0	.1	6.5	51.1	6.2	38.3
98.0	46.9	-5.2	.1	1.1	2.1	.5	-.8	.6	.5	.1	.0	.1	6.7	53.6	6.4	40.5
99.0	49.2	-5.3	.1	1.2	2.1	.6	-.9	.6	.5	.1	.0	.1	7.0	56.2	6.6	42.7

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	AHI NEG NOM-RSS
50.0	1.6	.2	.0	.0	-.1	.0	.2	.0	.0	.0	.0	.0	.3	2.0	.3	1.3
51.0	1.7	.2	.0	.0	-.1	.0	.2	.0	.0	.0	.0	.0	.4	2.1	.3	1.4
52.0	1.9	.2	.0	.0	-.1	.0	.2	.0	.0	.0	.0	.0	.4	2.2	.3	1.5
53.0	2.0	.2	.0	.0	-.1	.0	.2	.0	.0	.0	.0	.0	.4	2.4	.3	1.7
54.0	2.1	.3	.0	.0	-.1	.0	.2	.0	.0	.0	.0	.0	.4	2.6	.4	1.8
55.0	2.3	.3	.0	.0	-.1	-.1	.3	.0	.0	.0	.0	.0	.5	2.7	.4	1.9
56.0	2.4	.3	.0	-.1	-.1	-.1	.3	.0	.0	.0	.0	.0	.5	2.9	.4	2.0
57.0	2.6	.3	.0	-.1	-.1	-.1	.3	.0	.0	.0	.0	.0	.5	3.1	.4	2.1
58.0	2.7	.3	.0	-.1	-.2	-.1	.3	.0	.0	.0	.0	.0	.6	3.3	.5	2.3
59.0	2.9	.4	.0	-.1	-.2	-.1	.3	.0	.0	.0	.0	.0	.6	3.5	.5	2.4
60.0	3.1	.4	.0	-.1	-.2	-.1	.4	.0	.0	.0	.0	.0	.7	3.8	.5	2.5
61.0	3.3	.5	.0	-.1	-.2	-.1	.4	.0	.0	.0	.0	.0	.7	4.0	.6	2.7
62.0	3.5	.5	.0	-.1	-.2	-.1	.4	.0	.0	.0	.0	.0	.8	4.3	.6	2.9
63.0	3.6	.6	.0	-.1	-.2	-.1	.4	.0	.0	.0	.0	.0	.9	4.6	.7	3.1
64.0	4.0	.7	.0	-.1	-.3	-.1	.4	.0	.0	.0	.0	.0	.9	5.0	.8	3.3
65.0	4.4	.7	.0	-.1	-.3	-.1	.4	.0	.0	.0	.0	.0	1.0	5.3	.9	3.5
66.0	4.7	.8	.0	-.1	-.3	-.1	.4	.0	.0	.0	.0	.0	1.1	5.8	1.0	3.8
67.0	5.1	.9	.0	-.1	-.3	-.1	.4	.0	.0	.0	.0	.0	1.1	6.2	1.0	4.0
68.0	5.5	1.0	.0	-.1	-.4	-.1	.4	.0	.0	.0	.0	.0	1.2	6.7	1.2	4.4
69.0	6.0	1.1	.0	-.1	-.4	-.2	.4	.0	.0	.0	.0	.0	1.3	7.3	1.3	4.7
70.0	6.5	1.2	.0	-.2	-.4	-.2	.4	.0	.0	.0	.0	.0	1.5	7.9	1.4	5.1
71.0	7.0	1.3	.0	-.2	-.5	-.2	.5	.0	.0	.0	.0	.0	1.6	8.6	1.5	5.5
72.0	7.6	1.4	.0	-.2	-.5	-.2	.5	.0	.0	.0	.0	.0	1.7	9.3	1.6	6.0
73.0	8.3	1.5	.0	-.2	-.5	-.2	.5	.0	.0	.0	.0	.0	1.8	10.1	1.8	6.5
74.0	9.0	1.7	.0	-.2	-.6	-.2	.5	.0	.0	.0	.0	.0	2.0	11.0	1.9	7.1
75.0	9.8	1.8	.0	-.2	-.6	-.2	.5	.0	.0	.0	.0	.0	2.1	11.9	2.1	7.7
76.0	10.6	1.9	.0	-.2	-.7	-.3	.5	.0	.0	.0	.0	.0	2.3	13.0	2.3	8.4
77.0	11.6	2.1	.0	-.2	-.7	-.3	.5	.0	.0	.0	.0	.0	2.5	14.0	2.4	9.1
78.0	12.5	2.2	.0	-.3	-.8	-.3	.5	.0	.0	.0	.0	.0	2.7	15.2	2.6	9.9
79.0	13.6	2.4	.0	-.3	-.8	-.3	.6	.0	.0	.0	.1	.0	2.9	16.4	2.8	10.8
80.0	14.7	2.5	.0	-.3	-.8	-.3	.6	.0	.0	.0	.1	.0	3.0	17.8	3.0	11.7
81.0	15.9	2.7	.0	-.3	-.9	-.3	.6	.0	.0	.0	.1	.0	3.2	19.1	3.2	12.7
82.0	17.2	2.8	.0	-.3	-.9	-.3	.6	.0	.0	.0	.1	.0	3.4	20.6	3.4	13.8
83.0	18.5	3.0	.0	-.3	-1.0	-.4	.7	.0	.0	.0	.1	.0	3.6	22.2	3.6	14.9
84.0	19.9	3.1	.0	-.3	-1.0	-.4	.7	.0	.1	.0	.1	.0	3.8	23.8	3.8	16.1
85.0	21.4	3.2	.0	-.3	-1.1	-.4	.7	.0	.1	.0	.1	.0	4.0	25.5	4.0	17.4
86.0	23.0	3.4	.0	-.4	-1.1	-.4	.8	.0	.1	.0	.1	.0	4.2	27.2	4.2	18.8
87.0	24.6	3.5	.0	-.4	-1.1	-.4	.8	.0	.1	.1	.1	.0	4.4	29.1	4.4	20.2
88.0	26.3	3.6	.0	-.4	-1.2	-.4	.9	.0	.1	.1	.1	.0	4.6	31.0	4.6	21.7
89.0	28.1	3.7	.0	-.4	-1.2	-.5	.9	.0	.1	.1	.2	.0	4.9	33.0	4.8	23.3
90.0	30.0	3.8	.1	-.4	-1.2	-.5	.9	.0	.1	.1	.2	.0	5.1	35.0	5.0	24.9
91.0	31.9	3.9	.1	-.4	-1.3	-.5	1.0	.0	.1	.1	.2	.0	5.3	37.1	5.2	26.7
92.0	33.9	4.0	.1	-.4	-1.3	-.5	1.1	.0	.1	.1	.2	.0	5.5	39.3	5.4	28.4
93.0	35.9	4.1	.1	-.4	-1.3	-.5	1.1	.0	.2	.1	.2	.0	5.7	41.6	5.6	30.3
94.0	38.0	4.2	.1	-.4	-1.3	-.5	1.2	.0	.2	.1	.2	.0	5.9	43.9	5.8	32.2
95.0	40.1	4.2	.1	-.4	-1.3	-.5	1.2	.0	.2	.1	.3	.0	6.1	46.2	5.9	34.2
96.0	42.3	4.3	.1	-.4	-1.4	-.5	1.3	.0	.2	.1	.3	.0	6.3	48.6	6.1	36.2
97.0	44.6	4.3	.1	-.4	-1.4	-.5	1.4	.0	.2	.1	.3	.0	6.5	51.1	6.2	38.3
98.0	46.9	4.4	.1	-.4	-1.4	-.5	1.5	.0	.2	.1	.3	.0	6.7	53.6	6.4	40.5
99.0	49.2	4.4	.1	-.4	-1.4	-.5	1.5	.0	.3	.1	.3	.0	7.0	56.2	6.6	42.7

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	AHI POS NOM-RSS
100.0	51.6	-5.4	.1	1.2	2.2	.6	-1.0	.6	.5	.1	.0	.1	7.2	58.8	6.7	44.9
101.0	54.1	-5.4	.1	1.2	2.2	.6	-1.0	.6	.5	.1	.0	.1	7.4	61.5	6.9	47.2
102.0	56.6	-5.4	.1	1.3	2.3	.7	-1.1	.6	.6	.1	.0	.1	7.6	64.2	7.0	49.5
103.0	59.1	-5.5	.1	1.3	2.4	.7	-1.2	.6	.6	.1	.0	.2	7.8	66.9	7.2	51.9
104.0	61.7	-5.5	.1	1.3	2.4	.8	-1.3	.7	.6	.1	.0	.2	8.0	69.7	7.3	54.3
105.0	64.2	-5.4	.1	1.4	2.5	.8	-1.3	.7	.6	.1	.0	.2	8.2	72.4	7.4	56.8
106.0	66.8	-5.4	.1	1.4	2.5	.8	-1.4	.7	.6	.1	.0	.2	8.4	75.2	7.6	59.3
107.0	69.5	-5.4	.1	1.4	2.5	.9	-1.5	.8	.7	.1	-.1	.2	8.6	78.1	7.7	61.8
108.0	72.1	-5.3	.1	1.4	2.6	.9	-1.5	.8	.7	.1	-.1	.2	8.8	80.9	7.8	64.3
109.0	74.7	-5.2	.2	1.5	2.6	1.0	-1.6	.8	.7	.1	-.1	.2	9.0	83.7	7.9	66.8
110.0	77.3	-5.1	.2	1.5	2.6	1.0	-1.7	.9	.7	.1	-.1	.2	9.2	86.6	8.0	69.4
111.0	80.0	-4.9	.2	1.5	2.7	1.1	-1.7	.9	.7	.1	-.1	.2	9.4	89.4	8.1	71.9
112.0	82.6	-4.7	.1	1.5	2.7	1.1	-1.8	1.0	.8	.1	-.1	.2	9.6	92.2	8.2	74.4
113.0	85.1	-4.5	.1	1.6	2.7	1.1	-1.8	1.1	.8	.1	-.1	.3	9.8	94.9	8.2	76.9
114.0	87.6	-4.3	.1	1.6	2.7	1.2	-1.9	1.1	.8	.1	-.2	.3	10.1	97.7	8.3	79.3
115.0	90.0	-3.9	.1	1.6	2.7	1.2	-1.9	1.2	.8	.2	-.2	.3	10.3	100.3	8.3	81.7
116.0	92.4	-3.6	.1	1.6	2.8	1.3	-2.0	1.3	.8	.2	-.2	.3	10.5	102.9	8.3	84.1
117.0	94.7	-3.2	.1	1.7	2.8	1.3	-2.0	1.3	.9	.2	-.2	.3	10.8	105.5	8.4	86.3
118.0	96.9	-2.8	.1	1.7	2.8	1.3	-2.0	1.4	.9	.2	-.2	.3	11.0	107.9	8.4	88.5
119.0	99.0	-2.4	.1	1.7	2.8	1.4	-2.1	1.5	.9	.2	-.3	.3	11.3	110.4	8.5	90.5
120.0	101.1	-2.1	.1	1.7	2.8	1.4	-2.1	1.6	.9	.2	-.3	.3	11.6	112.7	8.6	92.5
121.0	103.1	-1.7	.1	1.7	2.8	1.4	-2.1	1.6	.9	.2	-.3	.3	11.9	115.0	8.7	94.4
122.0	105.1	-1.3	.1	1.8	2.9	1.5	-2.1	1.7	.9	.2	-.3	.3	12.1	117.2	8.8	96.3
123.0	107.0	-.9	.2	1.8	2.9	1.5	-2.1	1.8	1.0	.2	-.3	.4	12.4	119.4	9.0	98.0
124.0	108.8	-.6	.1	1.8	2.9	1.5	-2.1	1.9	1.0	.2	-.4	.4	12.7	121.5	9.1	99.7
125.0	110.6	-.3	.1	1.8	2.9	1.5	-2.1	2.0	1.0	.2	-.4	.4	12.9	123.6	9.4	101.3
126.0	112.4	.0	.1	1.8	2.9	1.6	-2.1	2.1	1.0	.2	-.4	.4	13.2	125.6	9.6	102.8
127.0	114.0	.3	.1	1.8	2.9	1.6	-2.2	2.1	1.0	.2	-.4	.4	13.5	127.5	9.8	104.2
128.0	115.7	.6	.1	1.9	2.9	1.6	-2.2	2.2	1.0	.2	-.4	.4	13.8	129.4	10.0	105.6
129.0	117.3	.9	.1	1.9	2.9	1.7	-2.2	2.3	1.1	.2	-.5	.4	14.0	131.3	10.3	107.0
130.0	118.8	1.2	.1	1.9	2.9	1.7	-2.2	2.4	1.1	.2	-.5	.4	14.3	133.1	10.5	108.3
140.0	132.2	4.0	.1	2.0	2.9	1.9	-2.4	3.1	1.2	.3	-.7	.5	17.2	149.3	12.8	119.3
150.0	142.4	6.4	.0	2.1	2.9	2.1	-2.6	3.7	1.3	.3	-1.0	.6	19.9	162.4	15.0	127.4
160.0	150.6	8.4	.0	2.1	2.8	2.3	-2.8	4.2	1.4	.3	-1.2	.6	22.5	173.0	16.8	133.8
170.0	157.7	9.8	.0	2.2	2.8	2.4	-3.9	3.8	1.5	.3	-1.5	.7	24.0	181.8	18.7	139.0
180.0	163.4	11.8	.1	2.1	2.6	2.6	-5.0	3.3	1.5	.4	-1.8	.8	26.4	189.9	21.1	142.4
190.0	167.8	13.7	.1	2.1	2.5	2.7	-5.6	3.1	1.6	.4	-2.1	.8	28.6	196.4	22.8	145.0
200.0	171.2	15.2	.1	2.1	2.3	2.8	-6.0	3.2	1.6	.4	-2.3	.9	30.6	201.8	24.2	147.0
210.0	174.0	16.5	.2	2.0	2.2	2.9	-6.2	3.4	1.7	.4	-2.5	.9	32.4	206.4	25.4	148.6
220.0	176.3	17.6	.2	2.0	2.1	3.0	-6.4	3.5	1.7	.5	-2.6	.9	33.9	210.2	26.4	149.9
230.0	178.4	18.5	.2	2.0	2.0	3.0	-6.6	3.7	1.7	.5	-2.8	1.0	35.2	213.6	27.2	151.2
240.0	180.3	19.3	.2	2.0	1.9	3.1	-6.8	3.8	1.8	.5	-2.9	1.0	36.3	216.6	28.0	152.3
250.0	182.1	20.0	.3	2.0	1.9	3.1	-6.9	3.9	1.8	.5	-3.0	1.0	37.4	219.5	28.7	153.4
260.0	183.9	20.7	.3	2.0	1.8	3.2	-7.1	4.0	1.8	.5	-3.2	1.0	38.4	222.3	29.3	154.5
270.0	185.7	21.3	.3	2.0	1.7	3.2	-7.2	4.0	1.9	.5	-3.3	1.1	39.4	225.0	30.0	155.7
280.0	187.5	22.0	.3	2.0	1.7	3.2	-7.4	4.1	1.9	.5	-3.4	1.1	40.3	227.8	30.7	156.9
290.0	189.5	22.6	.3	2.0	1.6	3.3	-7.6	4.2	1.9	.5	-3.5	1.1	41.3	230.8	31.3	158.2
300.0	191.7	23.2	.3	1.9	1.5	3.3	-7.8	4.3	2.0	.5	-3.7	1.2	42.3	234.0	32.1	159.6
310.0	194.0	23.9	.3	1.9	1.4	3.3	-7.9	4.4	2.1	.5	-3.8	1.2	43.4	237.4	32.8	161.2
320.0	196.7	24.6	.4	1.9	1.3	3.4	-8.1	4.5	2.1	.5	-4.0	1.2	44.6	241.2	33.6	163.1

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	AHI NOM-RSS NEG
100.0	51.6	4.4	.1	-.4	-1.4	-.5	1.6	.0	.3	.1	.4	.0	7.2	58.8	6.7	44.9
101.0	54.1	4.4	.1	-.4	-1.4	-.5	1.7	.0	.3	.1	.4	.0	7.4	61.5	6.9	47.2
102.0	56.6	4.4	.1	-.4	-1.3	-.5	1.7	.0	.3	.1	.4	.0	7.6	64.2	7.0	49.5
103.0	59.1	4.4	.1	-.4	-1.3	-.5	1.8	.0	.3	.1	.5	.0	7.8	66.9	7.2	51.9
104.0	61.7	4.3	.1	-.4	-1.3	-.5	1.9	.0	.4	.1	.5	.0	8.0	69.7	7.3	54.3
105.0	64.2	4.2	.1	-.3	-1.3	-.5	2.0	.0	.4	.2	.5	.0	8.2	72.4	7.4	56.8
106.0	66.8	4.2	.1	-.3	-1.2	-.5	2.1	.0	.4	.2	.6	.0	8.4	75.2	7.6	59.3
107.0	69.5	4.0	.1	-.3	-1.2	-.5	2.1	.0	.4	.2	.6	.0	8.6	78.1	7.7	61.8
108.0	72.1	3.9	.1	-.3	-1.1	-.5	2.2	.0	.5	.2	.6	.0	8.8	80.9	7.8	64.3
109.0	74.7	3.7	.2	-.3	-1.0	-.4	2.4	.0	.5	.2	.7	.0	9.0	83.7	7.9	66.8
110.0	77.3	3.5	.2	-.2	-1.0	-.4	2.5	.0	.5	.2	.7	.0	9.2	86.6	8.0	69.4
111.0	80.0	3.3	.2	-.2	-.9	-.4	2.6	.0	.6	.2	.7	.0	9.4	89.4	8.1	71.9
112.0	82.6	3.0	.1	-.2	-.8	-.4	2.7	.0	.6	.2	.8	.0	9.6	92.2	8.2	74.4
113.0	85.1	2.7	.1	-.2	-.7	-.4	2.8	.0	.6	.2	.8	.0	9.8	94.9	8.2	76.9
114.0	87.6	2.3	.1	-.1	-.7	-.4	2.9	.0	.6	.2	.9	.0	10.1	97.7	8.3	79.3
115.0	90.0	2.0	.1	-.1	-.6	-.3	3.1	.0	.7	.2	.9	.0	10.3	100.3	8.3	81.7
116.0	92.4	1.6	.1	-.1	-.5	-.3	3.2	.0	.7	.2	.9	.0	10.5	102.9	8.3	84.1
117.0	94.7	1.3	.1	-.1	-.5	-.3	3.3	.0	.7	.2	1.0	.0	10.8	105.5	8.4	86.3
118.0	96.9	1.0	.1	-.1	-.4	-.3	3.5	.0	.7	.2	1.0	.0	11.0	107.9	8.4	88.5
119.0	99.0	.6	.1	.0	-.3	-.3	3.6	.0	.8	.3	1.1	.0	11.3	110.4	8.5	90.5
120.0	101.1	.3	.1	.0	-.3	-.2	3.7	.0	.8	.3	1.1	.0	11.6	112.7	8.6	92.5
121.0	103.1	.0	.1	.0	-.2	-.2	3.9	.0	.8	.3	1.1	.0	11.9	115.0	8.7	94.4
122.0	105.1	-.3	.1	.0	-.2	-.2	4.0	.0	.8	.3	1.2	.0	12.1	117.2	8.8	96.3
123.0	107.0	-.6	.2	.0	-.1	-.2	4.2	.0	.9	.3	1.2	.0	12.4	119.4	9.0	98.0
124.0	108.8	-.9	.1	.1	.0	-.2	4.3	.0	.9	.3	1.3	.0	12.7	121.5	9.1	99.7
125.0	110.6	-1.2	.1	.1	.0	-.2	4.4	.0	.9	.3	1.3	.0	12.9	123.6	9.4	101.3
126.0	112.4	-1.4	.1	.1	.1	-.2	4.5	.0	.9	.3	1.3	.0	13.2	125.6	9.6	102.8
127.0	114.0	-1.7	.1	.1	.1	-.1	4.7	.0	.9	.3	1.4	.0	13.5	127.5	9.8	104.2
128.0	115.7	-2.0	.1	.1	.2	-.1	4.8	.0	1.0	.3	1.4	.0	13.8	129.4	10.0	105.6
129.0	117.3	-2.2	.1	.2	.3	-.1	4.9	.0	1.0	.3	1.4	.0	14.0	131.3	10.3	107.0
130.0	118.8	-2.5	.1	.2	.3	-.1	5.1	.0	1.0	.3	1.5	.0	14.3	133.1	10.5	108.3
140.0	132.2	-4.8	.1	.4	.9	.1	6.2	.0	1.2	.4	1.9	.0	17.2	149.3	12.8	119.3
150.0	142.4	-6.7	.1	.6	1.6	.3	7.2	.0	1.4	.4	2.3	.0	19.9	162.4	15.0	127.4
160.0	150.6	-8.1	.1	.8	2.2	.5	8.2	.0	1.5	.4	2.7	.0	22.5	173.0	16.8	133.8
170.0	157.7	-9.6	.1	1.0	2.6	.6	8.1	.0	1.7	.5	3.0	.0	24.0	181.8	18.7	139.0
180.0	163.4	-11.2	.1	1.3	3.4	.9	8.0	.0	1.9	.5	3.5	.0	26.4	189.9	21.1	142.4
190.0	167.8	-12.4	.2	1.6	4.1	1.1	8.1	.0	2.1	.5	3.8	.0	28.6	196.4	22.8	145.0
200.0	171.2	-13.4	.2	1.8	4.7	1.3	8.5	.0	2.2	.6	4.2	.0	30.6	201.8	24.2	147.0
210.0	174.0	-14.2	.3	2.0	5.2	1.5	8.9	.0	2.3	.6	4.5	.0	32.4	206.4	25.4	148.6
220.0	176.3	-14.9	.3	2.1	5.7	1.6	9.2	.0	2.4	.6	4.7	.0	33.9	210.2	26.4	149.9
230.0	178.4	-15.5	.3	2.3	6.1	1.8	9.5	.0	2.5	.6	4.9	.0	35.2	213.6	27.2	151.2
240.0	180.3	-16.0	.4	2.4	6.4	1.9	9.8	.0	2.6	.6	5.1	.0	36.3	216.6	28.0	152.3
250.0	182.1	-16.4	.4	2.5	6.7	2.0	10.1	.0	2.6	.7	5.3	.0	37.4	219.5	28.7	153.4
260.0	183.9	-16.9	.4	2.6	7.0	2.1	10.3	.0	2.7	.7	5.5	.0	38.4	222.3	29.3	154.5
270.0	185.7	-17.3	.4	2.7	7.3	2.1	10.5	.0	2.7	.7	5.6	.0	39.4	225.0	30.0	155.7
280.0	187.5	-17.7	.5	2.8	7.5	2.2	10.8	.0	2.8	.7	5.8	.0	40.3	227.8	30.7	156.9
290.0	189.5	-18.2	.5	2.9	7.8	2.3	11.0	.0	2.8	.7	6.0	.0	41.3	230.8	31.3	158.2
300.0	191.7	-18.6	.6	3.0	8.1	2.4	11.3	.0	2.9	.7	6.2	.0	42.3	234.0	32.1	159.6
310.0	194.0	-19.1	.6	3.1	8.4	2.5	11.5	.0	2.9	.8	6.4	.0	43.4	237.4	32.8	161.2
320.0	196.7	-19.6	.7	3.2	8.8	2.6	11.8	.0	3.0	.8	6.6	.0	44.6	241.2	33.6	163.1

PROPULSION

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	AHI NOM-RSS	POS
330.0	199.7	25.4	.4	1.2	1.2	3.4	-8.3	4.7	2.2	.5	-4.1	1.3	45.8	245.5	34.4	165.2	
340.0	203.1	26.2	.4	1.2	1.1	3.4	-8.6	4.8	2.3	.5	-4.3	1.4	47.1	250.3	35.4	167.8	
350.0	207.2	27.1	.4	1.2	1.0	3.4	-8.8	4.9	2.5	.5	-4.5	1.4	48.6	255.8	36.4	170.8	
360.0	212.1	28.0	.4	1.2	.8	3.5	-9.1	5.1	2.6	.5	-4.7	1.5	50.2	262.3	37.6	174.5	
370.0	217.9	29.0	.5	1.2	.7	3.5	-9.5	5.3	2.8	.5	-4.9	1.6	52.0	269.8	38.9	179.0	
380.0	224.9	30.1	.5	2.0	.5	3.4	-9.8	5.5	3.1	.5	-5.2	1.7	53.9	278.8	40.3	184.6	
390.0	233.5	31.3	.5	2.0	.3	3.4	-10.3	5.7	3.4	.5	-5.5	1.9	56.1	289.6	42.0	191.5	
400.0	244.0	32.4	.5	2.0	.0	3.4	-10.7	6.0	3.8	.5	-5.8	2.1	58.5	302.5	43.8	200.2	
410.0	257.1	33.6	.6	2.1	-.2	3.3	-11.2	6.3	4.3	.4	-6.2	2.3	60.9	317.9	45.8	211.2	
420.0	273.1	34.6	.6	2.2	-.5	3.1	-11.8	6.6	4.9	.3	-6.5	2.6	63.3	336.4	47.9	225.2	
430.0	292.7	35.6	.6	2.3	-.8	2.9	-12.3	6.9	5.6	.2	-6.9	3.0	65.8	358.5	49.9	242.8	
440.0	316.5	36.5	.6	2.4	-1.0	2.7	-12.8	7.1	6.4	.1	-7.2	3.4	68.3	384.8	51.9	264.6	
450.0	344.7	37.1	.6	2.6	-1.3	2.4	-13.3	7.3	7.2	.0	-7.5	3.9	70.9	415.6	53.7	291.0	
460.0	377.7	37.5	.5	2.8	-1.4	2.1	-13.7	7.4	8.1	-.1	-7.7	4.7	73.9	451.6	55.2	322.5	
470.0	415.6	37.6	.5	3.0	-1.5	1.8	-14.0	7.5	9.0	-.3	-7.8	5.7	77.5	493.1	56.4	359.3	
480.0	456.4	37.4	.5	3.3	-1.6	1.4	-14.2	7.4	9.8	-.4	-7.9	7.2	82.3	540.7	57.2	401.2	

PROPULSTON

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	AHI NEG NOM-RSS
330.0	199.7	-20.1	.9	3.4	9.1	2.8	12.1	.0	3.0	.8	6.8	.0	45.8	245.5	34.4	165.2
340.0	203.1	-20.7	.9	3.5	9.5	2.9	12.4	.0	3.0	.8	7.1	.0	47.1	250.3	35.4	167.8
350.0	207.2	-21.4	1.1	3.6	9.9	3.0	12.8	.0	3.0	.9	7.4	.0	48.6	255.8	36.4	170.8
360.0	212.1	-22.1	1.2	3.8	10.3	3.1	13.2	.0	3.0	.9	7.7	.0	50.2	262.3	37.6	174.5
370.0	217.9	-22.9	1.5	4.0	10.8	3.3	13.6	.0	3.0	1.0	8.0	.0	52.0	269.8	38.9	179.0
380.0	224.9	-23.8	1.8	4.1	11.3	3.5	14.1	.0	3.0	1.1	8.4	.0	53.9	278.8	40.3	184.6
390.0	233.5	-24.9	2.3	4.3	11.8	3.6	14.7	.0	2.9	1.1	8.8	.0	56.1	289.6	42.0	191.5
400.0	244.0	-26.1	3.0	4.5	12.4	3.8	15.3	.0	2.7	1.2	9.3	.0	58.5	302.5	43.8	200.2
410.0	257.1	-27.3	3.9	4.7	12.9	4.0	15.9	.0	2.5	1.4	9.8	.0	60.9	317.9	45.8	211.2
420.0	273.1	-28.7	5.2	4.9	13.3	4.1	16.5	.0	2.2	1.5	10.3	.0	63.3	336.4	47.9	225.2
430.0	292.7	-29.9	7.1	5.0	13.7	4.2	17.1	.0	1.7	1.7	10.7	.0	65.8	358.5	49.9	242.8
440.0	316.5	-31.2	9.9	5.1	14.0	4.3	17.7	.0	1.2	1.8	11.2	.0	68.3	384.8	51.9	264.6
450.0	344.7	-32.3	14.1	5.2	14.1	4.4	18.2	.0	.6	2.0	11.5	.0	70.9	415.6	53.7	291.0
460.0	377.7	-33.2	20.0	5.2	14.1	4.3	18.7	.0	.0	2.2	11.9	.0	73.9	451.6	55.2	322.5
470.0	415.6	-33.9	27.9	5.1	13.9	4.3	19.0	.0	-.7	2.4	12.1	.0	77.5	493.1	56.4	359.3
480.0	456.4	-34.4	37.9	5.0	13.6	4.1	19.3	.0	-1.5	2.6	12.2	.0	82.3	540.7	57.2	401.2

AERO/ENVIRONMENT

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
27.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
29.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
30.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.2
31.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.2
32.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.2
33.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3
34.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3
35.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3
36.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4
37.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4
38.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	.1	.5
39.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.5
40.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.6
41.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	.1	.6
42.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.0	.2	.7
43.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.1	.2	.8
44.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.2	.2	.8
45.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.3	.2	.9
46.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.4	.2	1.0
47.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.6	.2	1.1
48.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.7	.2	1.2
49.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.8	.3	1.3

AERO/ENVIRONMENT

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
27.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
29.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
30.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.2
31.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.3	.0	.2
32.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	.1	.3	.1	.2
33.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	.1	.4	.1	.3
34.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	.1	.4	.1	.3
35.0	.4	.0	.0	.0	.0	.0	.0	.0	.1	.1	.5	.1	.3
36.0	.5	.0	.0	.0	.0	.0	.0	.0	.1	.1	.6	.1	.4
37.0	.5	.0	.0	.0	.0	.0	.0	.0	.1	.1	.6	.1	.4
38.0	.6	.0	.0	.0	.0	.0	.0	.0	.1	.1	.7	.1	.5
39.0	.6	.0	.0	.0	.0	.0	.0	.0	.1	.1	.8	.1	.5
40.0	.7	.0	.0	.0	.0	.0	.0	.0	.1	.1	.8	.1	.6
41.0	.8	.0	.0	.0	.0	.0	.0	.0	.1	.1	.9	.1	.6
42.0	.9	.0	.0	.0	.0	.0	.0	.0	.2	.2	1.0	.2	.7
43.0	.9	.0	.0	.0	.0	.0	.0	.0	.2	.2	1.1	.2	.8
44.0	1.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	1.2	.2	.8
45.0	1.1	.0	.0	.0	.0	.0	.0	.0	.2	.2	1.3	.2	.9
46.0	1.2	.0	.0	.0	.0	.0	.0	.0	.2	.2	1.4	.2	1.0
47.0	1.3	.0	.0	.0	.0	.0	.0	.0	.2	.2	1.6	.2	1.1
48.0	1.4	.0	.0	.0	.0	.0	.0	.0	.3	.3	1.7	.2	1.2
49.0	1.5	.0	.0	.0	.0	.0	.0	.0	.3	.3	1.8	.3	1.3

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	1.6	.0	.0	.0	.0	.0	.0	.0	.1	.3	2.0	.3	1.3
51.0	1.7	.0	.0	.0	.0	.0	.0	.0	.1	.4	2.1	.3	1.4
52.0	1.9	.0	.0	.0	.0	.0	.0	.0	.1	.4	2.2	.3	1.5
53.0	2.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	2.4	.3	1.7
54.0	2.1	-.1	.0	.0	.0	.0	.0	.0	.1	.4	2.6	.4	1.8
55.0	2.3	-.1	.0	.0	.0	.0	.0	.0	.1	.5	2.7	.4	1.9
56.0	2.4	-.1	.0	.0	.0	.0	.0	.0	.2	.5	2.9	.4	2.0
57.0	2.6	-.1	.0	.0	.0	.0	.0	.0	.2	.5	3.1	.4	2.1
58.0	2.7	-.1	.0	.0	.0	.0	.0	.0	.2	.6	3.3	.5	2.3
59.0	2.9	-.1	.0	.0	.0	.0	.0	.0	.2	.6	3.5	.5	2.4
60.0	3.1	-.1	.1	.0	.0	.0	.0	.0	.2	.7	3.8	.5	2.5
61.0	3.3	-.1	.1	.0	.0	.0	.0	.0	.2	.7	4.0	.6	2.7
62.0	3.5	-.1	.1	.0	.0	.0	.0	.0	.3	.8	4.3	.6	2.9
63.0	3.8	-.1	.1	.0	.0	.0	.0	.0	.3	.9	4.6	.7	3.1
64.0	4.0	-.1	.1	.0	.0	.0	.0	.0	.3	.9	5.0	.8	3.3
65.0	4.4	-.1	.1	.0	.1	.0	.0	.0	.3	1.0	5.3	.9	3.5
66.0	4.7	-.2	.1	.1	.1	.0	.0	.0	.3	1.1	5.8	1.0	3.8
67.0	5.1	-.2	.1	.1	.1	.0	.0	.0	.3	1.1	6.2	1.0	4.0
68.0	5.5	-.2	.1	.1	.1	.0	.0	.0	.3	1.2	6.7	1.2	4.4
69.0	6.0	-.2	.1	.1	.1	.0	.0	.0	.3	1.2	7.3	1.3	4.7
70.0	6.5	-.2	.1	.1	.1	.1	.0	.0	.3	1.5	7.9	1.4	5.1
71.0	7.0	-.3	.1	.1	.1	.1	.0	.0	.3	1.6	8.6	1.5	5.5
72.0	7.6	-.3	.2	.1	.1	.1	.0	.0	.3	1.7	9.3	1.6	6.0
73.0	8.3	-.3	.2	.1	.1	.1	.0	.0	.3	1.8	10.1	1.8	6.5
74.0	9.0	-.3	.2	.1	.2	.1	.0	.0	.3	2.0	11.0	1.9	7.1
75.0	9.8	-.4	.2	.1	.2	.1	.0	.0	.3	2.1	11.9	2.1	7.7
76.0	10.6	-.4	.2	.2	.2	.1	.0	.0	.3	2.3	13.0	2.3	8.4
77.0	11.6	-.4	.2	.2	.2	.1	.0	.0	.4	2.5	14.0	2.4	9.1
78.0	12.5	-.5	.3	.2	.2	.1	.0	.0	.4	2.7	15.2	2.6	9.9
79.0	13.6	-.5	.2	.2	.3	.2	.0	.0	.4	2.9	16.4	2.8	10.8
80.0	14.7	-.5	.3	.2	.3	.2	.0	.0	.4	3.0	17.8	3.0	11.7
81.0	15.9	-.6	.3	.3	.3	.2	.0	.0	.4	3.2	19.1	3.2	12.7
82.0	17.2	-.6	.4	.3	.4	.2	.0	.0	.4	3.4	20.6	3.4	13.8
83.0	18.5	-.6	.4	.3	.4	.2	.1	.0	.4	3.6	22.2	3.6	14.9
84.0	19.9	-.7	.4	.3	.4	.2	.1	.0	.4	3.8	23.8	3.8	16.1
85.0	21.4	-.7	.5	.4	.5	.3	.1	.0	.4	4.0	25.5	4.0	17.4
86.0	23.0	-.8	.5	.4	.5	.3	.1	.0	.4	4.2	27.2	4.2	18.8
87.0	24.6	-.8	.5	.4	.6	.3	.1	.0	.5	4.4	29.1	4.4	20.2
88.0	26.3	-.8	.6	.5	.6	.3	.1	.0	.5	4.6	31.0	4.6	21.7
89.0	28.1	-.9	.6	.5	.7	.4	.1	.0	.5	4.9	33.0	4.8	23.3
90.0	30.0	-.9	.7	.6	.7	.4	.1	.0	.5	5.1	35.0	5.0	24.9
91.0	31.9	-1.0	.7	.6	.8	.4	.1	.0	.5	5.3	37.1	5.2	26.7
92.0	33.9	-1.0	.8	.6	.8	.5	.1	.0	.5	5.5	39.3	5.4	28.4
93.0	35.9	-1.0	.8	.7	.9	.5	.1	.0	.5	5.7	41.6	5.6	30.3
94.0	38.0	-1.0	.9	.8	1.0	.5	.1	.0	.5	5.9	43.9	5.8	32.2
95.0	40.1	-1.1	.9	.8	1.0	.6	.1	.0	.5	6.1	46.2	5.9	34.2
96.0	42.3	-1.1	1.0	.9	1.1	.6	.1	.1	.6	6.3	48.6	6.1	36.2
97.0	44.6	-1.1	1.1	.9	1.2	.6	.2	.1	.6	6.5	51.1	6.2	38.3
98.0	46.9	-1.1	1.1	1.0	1.2	.7	.2	.1	.6	6.7	53.6	6.4	40.5
99.0	49.3	-1.2	1.2	1.1	1.3	.7	.2	.1	.6	7.0	56.2	6.6	42.7

AERO/ENVIRONMENT

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	1.6	.0	.0	.0	.0	.0	.0	.0	.3	.3	2.0	.3	1.3
51.0	1.7	.0	.0	.0	.0	.0	.0	.0	.3	.4	2.1	.3	1.4
52.0	1.9	.1	.0	.0	.0	.0	.0	.0	.3	.4	2.2	.3	1.5
53.0	2.0	.1	.0	.0	.0	.0	.0	.0	.3	.4	2.4	.3	1.7
54.0	2.1	.1	.0	.0	.0	.0	.0	.0	.3	.4	2.6	.4	1.8
55.0	2.3	.1	.0	.0	.0	.0	.0	.0	.3	.5	2.7	.4	1.9
56.0	2.4	.1	.0	.0	.0	.0	.0	.0	.4	.5	2.9	.4	2.0
57.0	2.6	.1	.0	.0	.0	.0	.0	.0	.4	.5	3.1	.4	2.1
58.0	2.7	.1	.0	.0	.0	.0	.0	.0	.4	.6	3.3	.5	2.3
59.0	2.9	.1	.0	.0	.0	.0	.0	.0	.4	.6	3.5	.5	2.4
60.0	3.1	.1	.0	.0	.0	.0	.0	.0	.4	.7	3.8	.5	2.5
61.0	3.3	.1	-.1	.0	.0	.0	.0	.0	.4	.7	4.0	.6	2.7
62.0	3.5	.1	-.1	.0	.0	.0	.0	.0	.4	.8	4.3	.6	2.9
63.0	3.8	.2	-.1	.0	.0	.0	.0	.0	.4	.9	4.6	.7	3.1
64.0	4.0	.2	-.1	.0	.0	.0	.0	.0	.4	.9	5.0	.8	3.3
65.0	4.4	.2	-.1	.0	.0	.0	.0	.0	.4	1.0	5.3	.9	3.5
66.0	4.7	.2	-.1	.0	.0	.0	.0	.0	.4	1.1	5.8	1.0	3.8
67.0	5.1	.2	-.1	.0	-.1	.0	.0	.1	.4	1.1	6.2	1.0	4.0
68.0	5.5	.3	-.1	-.1	-.1	.0	.0	.1	.4	1.2	6.7	1.2	4.4
69.0	6.0	.3	-.1	-.1	-.1	.0	.0	.1	.4	1.3	7.3	1.3	4.7
70.0	6.5	.3	-.1	-.1	-.1	.0	.0	.1	.4	1.5	7.9	1.4	5.1
71.0	7.0	.3	-.1	-.1	-.1	.0	.0	.1	.3	1.6	8.6	1.5	5.5
72.0	7.6	.4	-.1	-.1	-.1	.0	.0	.1	.3	1.7	9.3	1.6	6.0
73.0	8.3	.4	-.1	-.1	-.1	-.1	.0	.1	.3	1.8	10.1	1.8	6.5
74.0	9.0	.4	-.2	-.1	-.1	-.1	.0	.1	.3	2.0	11.0	1.9	7.1
75.0	9.8	.5	-.2	-.1	-.1	-.1	.0	.1	.3	2.1	11.9	2.1	7.7
76.0	10.6	.5	-.2	-.1	-.2	-.1	.0	.1	.3	2.3	13.0	2.3	8.4
77.0	11.6	.6	-.2	-.1	-.2	-.1	.0	.1	.3	2.5	14.0	2.4	9.1
78.0	12.5	.6	-.2	-.1	-.2	-.1	.0	.1	.3	2.7	15.2	2.6	9.9
79.0	13.6	.7	-.2	-.2	-.2	-.1	.0	.2	.3	2.9	16.4	2.8	10.8
80.0	14.7	.7	-.3	-.2	-.2	-.1	.0	.2	.3	3.0	17.8	3.0	11.7
81.0	15.9	.8	-.3	-.2	-.3	-.1	.0	.2	.3	3.2	19.1	3.2	12.7
82.0	17.2	.8	-.3	-.2	-.3	-.1	.0	.2	.3	3.4	20.6	3.4	13.8
83.0	18.5	.9	-.3	-.2	-.3	-.2	.0	.2	.3	3.6	22.2	3.6	14.9
84.0	19.9	.9	-.4	-.3	-.3	-.2	.0	.2	.3	3.8	23.8	3.8	16.1
85.0	21.4	1.0	-.4	-.3	-.4	-.2	.0	.2	.3	4.0	25.5	4.0	17.4
86.0	23.0	1.0	-.4	-.3	-.4	-.2	.0	.2	.3	4.2	27.2	4.2	18.8
87.0	24.6	1.1	-.5	-.3	-.4	-.2	.0	.3	.3	4.4	29.1	4.4	20.2
88.0	26.3	1.1	-.5	-.4	-.5	-.2	.0	.3	.3	4.6	31.0	4.6	21.7
89.0	28.1	1.2	-.5	-.4	-.5	-.3	.0	.3	.3	4.9	33.0	4.8	23.3
90.0	30.0	1.3	-.6	-.4	-.6	-.3	.0	.3	.3	5.1	35.0	5.0	24.9
91.0	31.9	1.3	-.6	-.5	-.6	-.3	.0	.3	.3	5.3	37.1	5.2	26.7
92.0	33.9	1.4	-.7	-.5	-.7	-.3	.0	.3	.3	5.5	39.3	5.4	28.4
93.0	35.9	1.4	-.7	-.5	-.7	-.4	.0	.4	.4	5.7	41.6	5.6	30.3
94.0	38.0	1.5	-.8	-.6	-.8	-.4	.0	.4	.4	5.9	43.9	5.8	32.2
95.0	40.1	1.6	-.8	-.6	-.8	-.4	.0	.4	.4	6.1	46.2	5.9	34.2
96.0	42.3	1.6	-.9	-.7	-.9	-.4	.0	.4	.4	6.3	48.6	6.1	36.2
97.0	44.6	1.7	-.9	-.7	-.9	-.5	.0	.4	.5	6.5	51.1	6.2	38.3
98.0	46.9	1.7	-1.0	-.8	-1.0	-.5	.0	.5	.5	6.7	53.6	6.4	40.5
99.0	49.3	1.8	-1.0	-.8	-1.0	-.5	.0	.5	.6	7.0	56.2	6.6	42.7

AERO/ENVIRONMENT

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+PSS NOM+RSS	-RSS NOM-RSS	
100.0	51.6	-1.2	1.7	1.1	1.4	.8	.2	.1	.5	7.2	58.8	6.7 44.9
101.0	54.1	-1.2	1.7	1.2	1.5	.8	.2	.1	.5	7.4	61.5	6.9 47.2
102.0	56.6	-1.2	1.4	1.3	1.6	.9	.2	.1	.5	7.6	64.2	7.0 49.5
103.0	59.1	-1.3	1.5	1.3	1.6	.9	.2	.1	.4	7.8	66.9	7.2 51.9
104.0	61.7	-1.3	1.6	1.4	1.7	.9	.2	.1	.4	8.0	69.7	7.3 54.3
105.0	64.2	-1.3	1.7	1.5	1.8	1.0	.2	.2	.4	8.2	72.4	7.4 56.8
106.0	66.8	-1.3	1.7	1.6	1.9	1.0	.2	.2	.3	8.4	75.2	7.6 59.3
107.0	69.5	-1.3	1.8	1.7	2.0	1.1	.3	.2	.3	8.6	78.1	7.7 61.8
108.0	72.1	-1.3	1.9	1.7	2.1	1.1	.3	.2	.3	8.8	80.9	7.8 64.3
109.0	74.7	-1.3	2.0	1.8	2.2	1.2	.3	.2	.2	9.0	83.7	7.9 66.8
110.0	77.3	-1.3	2.1	1.9	2.3	1.2	.3	.2	.2	9.2	86.6	8.0 69.4
111.0	80.0	-1.3	2.2	2.0	2.4	1.3	.3	.3	.2	9.4	89.4	8.1 71.9
112.0	82.6	-1.3	2.3	2.1	2.5	1.3	.3	.3	.1	9.6	92.2	8.2 74.4
113.0	85.1	-1.3	2.4	2.2	2.6	1.4	.3	.3	.1	9.8	94.9	8.2 76.9
114.0	87.6	-1.3	2.5	2.3	2.7	1.4	.4	.3	.1	10.1	97.7	8.3 79.3
115.0	90.0	-1.3	2.6	2.4	2.8	1.5	.4	.3	.0	10.3	100.3	8.3 81.7
116.0	92.4	-1.2	2.6	2.5	2.8	1.5	.4	.3	.0	10.5	102.9	8.3 84.1
117.0	94.7	-1.2	2.7	2.5	2.9	1.6	.4	.3	.0	10.8	105.5	8.4 86.3
118.0	96.9	-1.2	2.8	2.6	3.0	1.6	.4	.4	.0	11.0	107.9	8.4 88.5
119.0	99.0	-1.2	2.9	2.7	3.1	1.6	.4	.4	.0	11.3	110.4	8.5 90.5
120.0	101.1	-1.2	3.0	2.8	3.2	1.7	.4	.4	.0	11.6	112.7	8.6 92.5
121.0	103.1	-1.2	3.0	2.9	3.3	1.7	.4	.4	.0	11.9	115.0	8.7 94.4
122.0	105.1	-1.2	3.1	2.9	3.3	1.7	.4	.4	.0	12.1	117.2	8.8 96.3
123.0	107.0	-1.2	3.2	3.0	3.4	1.8	.5	.4	.0	12.4	119.4	9.0 98.0
124.0	108.8	-1.2	3.3	3.1	3.5	1.8	.5	.4	.0	12.7	121.5	9.1 99.7
125.0	110.6	-1.2	3.3	3.2	3.5	1.9	.5	.4	.0	12.9	123.6	9.4 101.3
126.0	112.4	-1.2	3.4	3.2	3.6	1.9	.5	.4	.0	13.2	125.6	9.6 102.8
127.0	114.0	-1.2	3.5	3.3	3.7	1.9	.5	.4	.0	13.5	127.5	9.8 104.2
128.0	115.7	-1.2	3.6	3.4	3.8	2.0	.5	.5	.0	13.8	129.4	10.0 105.6
129.0	117.3	-1.1	3.6	3.5	3.8	2.0	.5	.5	-.1	14.0	131.3	10.3 107.0
130.0	118.8	-1.1	3.7	3.5	3.9	2.0	.5	.5	-.1	14.3	133.1	10.5 108.3
140.0	132.2	-1.0	4.4	4.2	4.6	2.4	.6	.5	-.1	17.2	149.3	12.8 119.3
150.0	142.4	-.8	5.0	4.8	5.1	2.6	.7	.6	-.2	19.9	162.4	15.0 127.4
160.0	150.6	-.6	5.5	5.4	5.7	2.9	.8	.7	-.6	22.5	173.0	16.8 133.8
170.0	157.7	-.5	6.0	5.9	6.1	3.1	.8	.7	-2.3	24.0	181.8	18.7 139.0
180.0	163.4	-.2	6.6	6.5	6.7	3.4	.9	.8	-3.5	26.4	189.9	21.1 142.4
190.0	167.8	.1	7.1	7.0	7.1	3.6	1.0	.8	-3.9	28.6	196.4	22.8 145.0
200.0	171.2	.3	7.5	7.5	7.5	3.8	1.0	.9	-4.0	30.6	201.8	24.2 147.0
210.0	174.0	.5	7.9	7.9	7.8	4.0	1.1	.9	-3.8	32.4	206.4	25.4 148.6
220.0	176.3	.7	8.2	8.2	8.1	4.1	1.1	.9	-3.7	33.9	210.2	26.4 149.9
230.0	178.4	.9	8.5	8.5	8.4	4.2	1.1	1.0	-3.6	35.2	213.6	27.2 151.2
240.0	180.3	1.0	8.8	8.7	8.6	4.3	1.2	1.0	-3.5	36.3	216.6	28.0 152.3
250.0	182.1	1.1	9.0	9.0	8.8	4.4	1.2	1.0	-3.4	37.4	219.5	28.7 153.4
260.0	183.9	1.2	9.2	9.2	9.0	4.5	1.2	1.0	-3.3	38.4	222.3	29.3 154.5
270.0	185.7	1.3	9.4	9.4	9.2	4.6	1.2	1.0	-3.3	39.4	225.0	30.0 155.7
280.0	187.5	1.5	9.6	9.6	9.3	4.7	1.3	1.1	-3.2	40.3	227.8	30.7 156.9
290.0	189.5	1.6	9.8	9.9	9.5	4.8	1.3	1.1	-3.1	41.3	230.8	31.3 158.2
300.0	191.7	1.7	10.1	10.1	9.8	4.9	1.3	1.1	-3.0	42.3	234.0	32.1 159.6
310.0	194.0	1.8	10.3	10.4	10.0	5.0	1.3	1.1	-2.9	43.4	237.4	32.8 161.2
320.0	196.7	1.9	10.6	10.6	10.2	5.1	1.4	1.1	-2.8	44.6	241.2	33.6 163.1

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	51.6	1.8	-1.1	-.9	-1.1	-.6	.0	.5	.6	7.2	58.8	6.7	44.9
101.0	54.1	1.9	-1.2	-.9	-1.2	-.6	.0	.5	.6	7.4	61.5	6.9	47.2
102.0	56.6	1.9	-1.2	-1.0	-1.2	-.6	.0	.5	.7	7.6	64.2	7.0	49.5
103.0	59.1	2.0	-1.2	-1.1	-1.3	-.6	.0	.6	.8	7.8	66.9	7.2	51.9
104.0	61.7	2.0	-1.4	-1.1	-1.4	-.7	.0	.6	.8	8.0	69.7	7.3	54.3
105.0	64.2	2.1	-1.4	-1.2	-1.4	-.7	.0	.6	.9	8.2	72.4	7.4	56.8
106.0	66.8	2.1	-1.5	-1.2	-1.5	-.7	.0	.6	1.0	8.4	75.2	7.6	59.3
107.0	69.5	2.2	-1.6	-1.3	-1.6	-.8	.0	.7	1.1	8.6	78.1	7.7	61.8
108.0	72.1	2.2	-1.7	-1.4	-1.7	-.8	.0	.7	1.2	8.8	80.9	7.8	64.3
109.0	74.7	2.3	-1.7	-1.5	-1.7	-.9	.0	.7	1.3	9.0	83.7	7.9	66.8
110.0	77.3	2.3	-1.8	-1.5	-1.8	-.9	.0	.7	1.4	9.2	86.6	8.0	69.4
111.0	80.0	2.3	-1.9	-1.6	-1.9	-.9	.0	.8	1.5	9.4	89.4	8.1	71.9
112.0	82.6	2.3	-2.0	-1.7	-2.0	-1.0	.0	.8	1.6	9.6	92.2	8.2	74.4
113.0	85.1	2.4	-2.1	-1.7	-2.1	-1.0	.0	.8	1.8	9.8	94.9	8.2	76.9
114.0	87.6	2.4	-2.1	-1.8	-2.1	-1.0	.0	.8	1.9	10.1	97.7	8.3	79.3
115.0	90.0	2.4	-2.2	-1.9	-2.2	-1.1	.0	.8	2.0	10.3	100.3	8.3	81.7
116.0	92.4	2.5	-2.3	-2.0	-2.3	-1.1	.0	.9	2.2	10.5	102.9	8.3	84.1
117.0	94.7	2.5	-2.4	-2.0	-2.3	-1.1	.0	.9	2.3	10.8	105.5	8.4	86.3
118.0	96.9	2.5	-2.4	-2.1	-2.4	-1.2	.0	.9	2.4	11.0	107.9	8.4	88.5
119.0	99.0	2.5	-2.5	-2.2	-2.5	-1.2	.0	.9	2.6	11.3	110.4	8.5	90.5
120.0	101.1	2.6	-2.6	-2.2	-2.5	-1.2	.0	1.0	2.7	11.6	112.7	8.6	92.5
121.0	103.1	2.6	-2.6	-2.3	-2.6	-1.2	.0	1.0	2.9	11.9	115.0	8.7	94.4
122.0	105.1	2.6	-2.7	-2.3	-2.7	-1.3	.0	1.0	3.0	12.1	117.2	8.8	96.3
123.0	107.0	2.6	-2.8	-2.4	-2.7	-1.3	.0	1.0	3.2	12.4	119.4	9.0	98.0
124.0	108.8	2.7	-2.8	-2.5	-2.8	-1.3	.0	1.0	3.3	12.7	121.5	9.1	99.7
125.0	110.6	2.7	-2.9	-2.5	-2.8	-1.3	.0	1.1	3.5	12.9	123.6	9.4	101.3
126.0	112.4	2.7	-2.9	-2.6	-2.9	-1.4	.0	1.1	3.6	13.2	125.6	9.6	102.8
127.0	114.0	2.7	-3.0	-2.6	-3.0	-1.4	.0	1.1	3.7	13.5	127.5	9.8	104.2
128.0	115.7	2.7	-3.1	-2.7	-3.0	-1.4	.0	1.1	3.9	13.8	129.4	10.0	105.6
129.0	117.3	2.7	-3.1	-2.8	-3.1	-1.4	.0	1.1	4.0	14.0	131.3	10.3	107.0
130.0	118.8	2.8	-3.2	-2.8	-3.1	-1.5	.0	1.2	4.2	14.3	133.1	10.5	108.3
140.0	132.2	2.9	-3.7	-3.4	-3.7	-1.7	.0	1.3	5.4	17.2	149.3	12.8	119.3
150.0	142.4	2.9	-4.2	-3.9	-4.2	-1.9	.0	1.5	6.4	19.9	162.4	15.0	127.4
160.0	150.6	2.9	-4.7	-4.3	-4.5	-2.1	.0	1.6	7.6	22.5	173.0	16.9	133.8
170.0	157.7	3.0	-5.1	-4.7	-4.9	-2.3	.0	1.8	8.0	24.0	181.8	18.7	139.0
180.0	163.4	2.9	-5.6	-5.2	-5.4	-2.5	.0	1.9	7.9	26.4	189.9	21.1	142.4
190.0	167.8	2.8	-5.9	-5.6	-5.7	-2.6	.0	2.1	7.9	28.6	196.4	22.8	145.0
200.0	171.2	2.7	-6.3	-6.0	-6.0	-2.8	.0	2.2	7.9	30.6	201.8	24.2	147.0
210.0	174.0	2.6	-6.6	-6.3	-6.3	-2.9	.0	2.3	8.0	32.4	206.4	25.4	148.6
220.0	176.3	2.6	-6.8	-6.5	-6.5	-3.0	.0	2.3	8.1	33.9	210.2	26.4	149.9
230.0	178.4	2.5	-7.0	-6.7	-6.7	-3.1	.0	2.4	8.2	35.2	213.6	27.2	151.2
240.0	180.3	2.5	-7.2	-6.9	-6.8	-3.1	.0	2.5	8.2	36.3	216.6	28.0	152.3
250.0	182.1	2.4	-7.3	-7.1	-7.0	-3.2	.0	2.5	8.3	37.4	219.5	28.7	153.4
260.0	183.9	2.4	-7.5	-7.2	-7.1	-3.3	.0	2.6	8.3	38.4	222.3	29.3	154.5
270.0	185.7	2.4	-7.7	-7.4	-7.3	-3.3	-.1	2.6	8.4	39.4	225.0	30.0	155.7
280.0	187.5	2.3	-7.9	-7.6	-7.4	-3.4	-.1	2.7	8.4	40.3	227.8	30.7	156.9
290.0	189.5	2.3	-8.0	-7.7	-7.6	-3.4	-.1	2.7	8.5	41.3	230.8	31.3	158.2
300.0	191.7	2.3	-8.2	-7.9	-7.7	-3.5	-.1	2.8	8.5	42.3	234.0	32.1	159.6
310.0	194.0	2.2	-8.3	-8.1	-7.9	-3.6	-.1	2.9	8.5	43.4	237.4	32.8	161.2
320.0	196.7	2.2	-8.5	-8.2	-8.1	-3.7	-.1	2.9	8.6	44.6	241.2	33.6	163.1

AERO/ENVIRONMENT

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-PSS	NOM-RSS
330.0	199.7	2.1	10.9	10.9	10.4	5.2	1.4	1.1	-2.8	45.8	245.5	34.4	165.2
340.0	203.1	2.2	11.2	11.2	10.7	5.3	1.4	1.2	-2.7	47.1	250.3	35.4	167.8
350.0	207.2	2.4	11.5	11.6	11.0	5.5	1.5	1.2	-2.5	48.6	255.8	36.4	170.8
360.0	212.1	2.5	11.9	12.0	11.3	5.6	1.5	1.2	-2.4	50.2	262.3	37.6	174.5
370.0	217.9	2.7	12.3	12.4	11.7	5.8	1.6	1.2	-2.3	52.0	269.8	38.9	179.0
380.0	224.9	2.9	12.8	12.9	12.1	6.0	1.6	1.2	-2.1	53.9	278.8	40.3	184.6
390.0	233.5	3.1	13.3	13.4	12.5	6.2	1.7	1.2	-1.9	56.1	289.6	42.0	191.5
400.0	244.0	3.3	13.9	14.0	13.0	6.4	1.8	1.2	-1.8	58.5	302.5	43.8	200.2
410.0	257.1	3.4	14.4	14.6	13.5	6.7	1.9	1.2	-1.5	60.9	317.9	45.8	211.2
420.0	273.1	3.6	15.0	15.2	14.1	6.9	1.9	1.2	-1.3	63.3	336.4	47.9	225.2
430.0	292.7	3.6	15.6	15.8	14.6	7.2	2.0	1.2	-1.1	65.8	358.5	49.9	242.8
440.0	316.5	3.7	16.2	16.4	15.1	7.4	2.1	1.2	-.9	68.3	384.8	51.9	264.6
450.0	344.7	3.6	16.7	16.9	15.5	7.6	2.1	1.1	-.7	70.9	415.6	53.7	291.0
460.0	377.7	3.5	17.1	17.3	15.9	7.8	2.2	1.1	-.5	73.9	451.6	55.2	322.5
470.0	415.6	3.3	17.4	17.7	16.2	8.0	2.3	1.0	-.4	77.5	493.1	56.4	359.3
480.0	458.4	3.0	17.6	17.9	16.4	8.1	2.3	1.0	-.3	82.3	540.7	57.2	401.2

AERO/ENVIRONMENT

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	199.7	2.2	-8.7	-8.5	-8.3	-3.7	-.1	3.0	8.6	45.8	245.5	34.4	165.2
340.0	203.1	2.1	-9.0	-8.8	-8.5	-3.8	-.1	3.1	8.7	47.1	250.3	35.4	167.8
350.0	207.2	2.1	-9.2	-9.0	-8.7	-3.9	-.1	3.2	8.8	48.6	255.8	36.4	170.8
360.0	212.1	2.1	-9.5	-9.2	-8.9	-4.0	-.1	3.3	8.8	50.2	262.3	37.6	174.5
370.0	217.9	2.1	-9.8	-9.7	-9.2	-4.1	-.1	3.4	8.9	52.0	269.8	38.9	179.0
380.0	224.4	2.0	-10.2	-10.1	-9.5	-4.2	-.1	3.6	9.0	53.9	278.8	40.3	184.6
390.0	233.5	2.0	-10.6	-10.5	-9.9	-4.3	-.1	3.7	9.0	56.1	289.6	42.0	191.5
400.0	244.6	2.0	-11.0	-10.9	-10.3	-4.4	-.1	3.9	9.1	58.5	302.5	43.8	200.2
410.0	257.1	2.1	-11.5	-11.5	-10.7	-4.6	-.1	4.1	9.2	60.9	317.9	45.8	211.2
420.0	273.1	2.1	-12.0	-12.0	-11.1	-4.7	-.1	4.3	9.3	63.3	336.4	47.9	225.2
430.0	292.7	2.3	-12.5	-12.5	-11.6	-4.8	-.1	4.5	9.3	65.8	358.5	49.9	242.8
440.0	316.5	2.4	-13.0	-13.0	-12.0	-4.9	-.1	4.7	9.4	68.3	384.8	51.9	264.6
450.0	344.7	2.7	-13.4	-13.4	-12.4	-5.0	-.2	4.9	9.4	70.9	415.6	53.7	291.0
460.0	377.7	3.0	-13.8	-13.8	-12.7	-5.1	-.2	5.2	9.4	73.9	451.6	55.2	322.5
470.0	415.6	3.3	-14.0	-14.1	-12.9	-5.2	-.2	5.3	9.4	77.5	493.1	56.4	359.3
480.0	458.4	3.7	-14.2	-14.3	-13.1	-5.5	-.2	5.5	9.4	82.3	540.7	57.2	401.2

MASS PROPERTIES

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
27.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
29.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
30.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.2
31.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.2
32.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.2
33.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3
34.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3
35.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3
36.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4
37.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4
38.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	.1	.5
39.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.5
40.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.6
41.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	.1	.6
42.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.0	.2	.7
43.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.1	.2	.8
44.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.2	.2	.8
45.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.3	.2	.9
46.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.4	.2	1.0
47.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.6	.2	1.1
48.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.7	.2	1.2
49.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.8	.3	1.3

MASS PROPERTIES

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0
26.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0
27.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	.0
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	.0
29.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	.0
30.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.2	.0
31.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.2	.0
32.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.2	.0
33.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3	.0
34.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3	.0
35.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3	.0
36.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4	.0
37.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4	.0
38.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	.1	.5	.0
39.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.5	.0
40.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.6	.0
41.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	.1	.6	.0
42.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.0	.2	.7	.0
43.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.1	.2	.8	.0
44.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.2	.2	.8	.0
45.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.3	.2	.9	.0
46.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.4	.2	1.0	.0
47.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.6	.2	1.1	.0
48.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.7	.2	1.2	.0
49.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.8	.3	1.3	.0

MASS PROPERTIES

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.0	.3	1.3
51.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.1	.3	1.4
52.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.2	.3	1.5
53.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.4	.3	1.7
54.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.6	.4	1.8
55.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	2.7	.4	1.9
56.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	2.9	.4	2.0
57.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	3.1	.4	2.1
58.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.3	.5	2.3
59.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.5	.5	2.4
60.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.8	.5	2.5
61.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	4.0	.6	2.7
62.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	4.3	.6	2.9
63.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	4.6	.7	3.1
64.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	5.0	.8	3.3
65.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	5.3	.9	3.5
66.0	4.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.1	5.8	1.0	3.8
67.0	5.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.1	6.2	1.0	4.0
68.0	5.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.2	6.7	1.2	4.4
69.0	6.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.3	7.3	1.3	4.7
70.0	6.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.5	7.9	1.4	5.1
71.0	7.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.6	8.6	1.5	5.5
72.0	7.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.7	9.3	1.6	6.0
73.0	8.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.8	10.1	1.8	6.5
74.0	9.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	2.0	11.0	1.9	7.1
75.0	9.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	2.1	11.9	2.1	7.7
76.0	10.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	2.3	13.0	2.3	8.4
77.0	11.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	2.5	14.0	2.4	9.1
78.0	12.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	2.7	15.2	2.6	9.9
79.0	13.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	2.9	16.4	2.8	10.8
80.0	14.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	3.0	17.8	3.0	11.7
81.0	15.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	3.2	19.1	3.2	12.7
82.0	17.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	3.4	20.6	3.4	13.8
83.0	18.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	3.6	22.2	3.6	14.9
84.0	19.9	.0	.2	.0	.0	.0	.1	.0	.0	.0	3.8	23.8	3.8	16.1
85.0	21.4	.0	.2	.0	.0	.0	.1	.0	.0	.0	4.0	25.5	4.0	17.4
86.0	23.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	4.2	27.2	4.2	18.8
87.0	24.6	.0	.2	.0	.0	.1	.1	.0	.0	.0	4.4	29.1	4.4	20.2
88.0	26.3	.0	.2	.0	.0	.1	.1	.0	.0	.0	4.6	31.0	4.6	21.7
89.0	28.1	.0	.2	.0	.0	.1	.1	.0	.0	.0	4.9	33.0	4.8	23.3
90.0	30.0	.0	.2	.0	.0	.1	.1	.0	.1	.1	5.1	35.0	5.0	24.9
91.0	31.9	.0	.2	.0	.0	.1	.1	.0	.1	.1	5.3	37.1	5.2	26.7
92.0	33.9	.0	.3	.0	.0	.1	.1	.0	.1	.1	5.5	39.3	5.4	28.4
93.0	35.9	.0	.2	.0	.0	.1	.1	.0	.1	.1	5.7	41.6	5.6	30.3
94.0	38.0	.0	.4	.0	.0	.1	.1	.0	.1	.1	5.9	43.9	5.8	32.2
95.0	40.1	.1	.4	.0	.0	.1	.1	.0	.1	.1	6.1	46.2	5.9	34.2
96.0	42.3	.1	.4	.0	.0	.1	.1	.0	.1	.1	6.3	48.6	6.1	36.2
97.0	44.6	.1	.4	.0	.0	.1	.1	.0	.1	.1	6.5	51.1	6.2	38.3
98.0	46.9	.1	.4	.0	.0	.1	.1	.0	.1	.1	6.7	53.6	6.4	40.5
99.0	49.2	.1	.4	.0	.0	.1	.1	.0	.1	.1	7.0	56.2	6.6	42.7

MASS PROPERTIES

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.0	.3	1.3
51.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.1	.3	1.4
52.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.2	.3	1.5
53.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.4	.3	1.7
54.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.6	.4	1.8
55.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	2.7	.4	1.9
56.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	2.9	.4	2.0
57.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	3.1	.4	2.1
58.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.3	.5	2.3
59.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.5	.5	2.4
60.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.8	.5	2.5
61.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	4.0	.6	2.7
62.0	3.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	4.3	.6	2.9
63.0	3.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.9	4.6	.7	3.1
64.0	4.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.9	5.0	.8	3.3
65.0	4.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	5.3	.9	3.5
66.0	4.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	5.8	1.0	3.8
67.0	5.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	6.2	1.0	4.0
68.0	5.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.2	6.7	1.2	4.4
69.0	6.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	7.3	1.3	4.7
70.0	6.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	7.9	1.4	5.1
71.0	7.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.6	1.5	5.5
72.0	7.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.7	9.3	1.6	6.0
73.0	8.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.8	10.1	1.8	6.5
74.0	9.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.0	11.0	1.9	7.1
75.0	9.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.1	11.9	2.1	7.7
76.0	10.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.3	13.0	2.3	8.4
77.0	11.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.5	14.0	2.4	9.1
78.0	12.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.7	15.2	2.6	9.9
79.0	13.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.9	16.4	2.8	10.8
80.0	14.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.0	17.8	3.0	11.7
81.0	15.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	3.2	19.1	3.2	12.7
82.0	17.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	3.4	20.6	3.4	13.8
83.0	18.5	.3	.1	.0	.0	.0	.0	.1	.0	.0	3.6	22.2	3.6	14.9
84.0	19.9	.3	.1	.0	.0	.0	.0	.1	.0	.0	3.8	23.8	3.8	16.1
85.0	21.4	.3	.1	.0	.0	.0	.0	.1	.0	.0	4.0	25.5	4.0	17.4
86.0	23.0	.4	.1	.0	.0	.0	.0	.1	.0	.0	4.2	27.2	4.2	18.8
87.0	24.6	.4	.1	.0	.0	.0	.0	.1	.0	.0	4.4	29.1	4.4	20.2
88.0	26.3	.4	.1	.0	.0	.0	.0	.1	.0	.0	4.6	31.0	4.6	21.7
89.0	28.1	.4	.1	.0	.0	.0	.0	.1	.0	.0	4.9	33.0	4.8	23.3
90.0	30.0	.4	.1	.0	.0	.0	.0	.1	.1	.1	5.1	35.0	5.0	24.9
91.0	31.9	.5	.2	.0	.0	.0	.0	.1	.1	.1	5.3	37.1	5.2	26.7
92.0	33.9	.5	.2	.0	.0	.0	.0	.1	.1	.1	5.5	39.3	5.4	28.4
93.0	35.9	.5	.2	.0	.0	.1	.0	.1	.1	.1	5.7	41.6	5.6	30.3
94.0	38.0	.5	.2	.0	.0	.1	.0	.1	.1	.1	5.9	43.9	5.8	32.2
95.0	40.1	.6	.2	.0	.0	.1	.0	.1	.1	.1	6.1	46.2	5.9	34.2
96.0	42.3	.6	.2	.0	.0	.1	.0	.1	.1	.1	6.3	48.6	6.1	36.2
97.0	44.6	.6	.2	.0	.0	.1	.0	.1	.1	.1	6.5	51.1	6.2	38.3
98.0	46.9	.6	.3	.0	.0	.1	.0	.2	.1	.1	6.7	53.6	6.4	40.5
99.0	49.2	.7	.2	.0	.0	.1	.0	.2	.1	.1	7.0	56.2	6.6	42.7

MASS PROPERTIES

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	51.6	.1	.5	.0	.0	.1	.1	.0	.1	.1	7.2	58.8	6.7	44.9
101.0	54.1	.1	.5	.0	.0	.1	.2	.0	.1	.1	7.4	61.5	6.9	47.2
102.0	56.6	.2	.5	.0	.0	.1	.2	.0	.1	.1	7.6	64.2	7.0	49.5
103.0	59.1	.2	.5	.0	.0	.1	.2	.0	.1	.1	7.8	66.9	7.2	51.9
104.0	61.7	.2	.5	.0	.0	.1	.2	.0	.1	.1	8.0	69.7	7.3	54.3
105.0	64.2	.2	.5	.0	.0	.2	.2	.0	.1	.1	8.2	72.4	7.4	56.8
106.0	66.8	.2	.6	.0	.0	.2	.2	.0	.1	.1	8.4	75.2	7.6	59.3
107.0	69.5	.3	.6	.0	.0	.2	.2	.0	.1	.1	8.6	78.1	7.7	61.8
108.0	72.1	.3	.6	.0	.0	.2	.2	.0	.1	.1	8.8	80.9	7.8	64.3
109.0	74.7	.3	.6	.0	.0	.2	.2	.0	.2	.2	9.0	83.7	7.9	66.8
110.0	77.3	.3	.6	.0	.0	.2	.2	.0	.2	.2	9.2	86.6	8.0	69.4
111.0	80.0	.3	.7	.0	.0	.2	.2	.0	.2	.2	9.4	89.4	8.1	71.9
112.0	82.6	.4	.7	.0	.0	.2	.2	.0	.2	.2	9.6	92.2	8.2	74.4
113.0	85.1	.4	.7	.0	.0	.2	.3	.0	.2	.2	9.8	94.9	8.2	76.9
114.0	87.6	.4	.7	.0	.0	.2	.3	.0	.2	.2	10.1	97.7	8.3	79.3
115.0	90.0	.4	.7	.0	.0	.2	.3	.0	.2	.2	10.3	100.3	8.3	81.7
116.0	92.4	.5	.7	.0	.0	.2	.3	.0	.2	.2	10.5	102.9	8.3	84.1
117.0	94.7	.5	.8	.0	.0	.2	.3	.0	.2	.2	10.8	105.5	8.4	86.3
118.0	96.9	.5	.8	.0	.0	.3	.3	.0	.2	.2	11.0	107.9	8.4	88.5
119.0	99.0	.5	.8	.0	.0	.3	.3	.0	.2	.2	11.3	110.4	8.5	90.5
120.0	101.1	.6	.8	.0	.0	.3	.3	.0	.2	.2	11.6	112.7	8.6	92.5
121.0	103.1	.6	.8	.0	.0	.3	.3	.0	.2	.2	11.9	115.0	8.7	94.4
122.0	105.1	.6	.8	.0	.0	.3	.3	.0	.2	.2	12.1	117.2	8.8	96.3
123.0	107.0	.6	.9	.0	.0	.3	.3	.0	.2	.2	12.4	119.4	9.0	98.0
124.0	108.8	.6	.9	.0	.0	.3	.3	.0	.2	.2	12.7	121.5	9.1	99.7
125.0	110.6	.7	.9	.0	.0	.3	.3	.0	.2	.2	12.9	123.6	9.4	101.3
126.0	112.4	.7	.9	.0	.0	.3	.4	.0	.2	.2	13.2	125.6	9.6	102.8
127.0	114.0	.7	.9	.0	.0	.3	.4	.0	.3	.3	13.5	127.5	9.8	104.2
128.0	115.7	.7	.9	.0	.0	.3	.4	.0	.3	.3	13.8	129.4	10.0	105.6
129.0	117.3	.7	.9	.0	.0	.3	.4	.0	.3	.3	14.0	131.3	10.3	107.0
130.0	118.8	.8	.9	.0	.0	.3	.4	.0	.3	.3	14.3	133.1	10.5	108.3
140.0	132.2	.9	1.1	.0	.0	.4	.4	.0	.3	.3	17.2	149.3	12.8	119.3
150.0	142.4	1.1	1.2	.0	.0	.4	.5	.0	.3	.3	19.9	162.4	15.0	127.4
160.0	151.6	1.3	1.2	.0	.0	.5	.5	.0	.4	.4	22.5	173.0	16.8	133.8
170.0	157.7	1.4	1.3	.0	.0	.5	.6	.0	.4	.4	24.0	181.8	18.7	139.0
180.0	163.4	1.7	1.4	.0	.0	.6	.6	.0	.4	.4	26.4	189.9	21.1	142.4
190.0	167.8	1.8	1.5	.0	.0	.6	.6	-.1	.5	.5	26.6	196.4	22.8	145.0
200.0	171.2	2.0	1.5	.0	.0	.7	.7	-.1	.5	.5	30.6	201.8	24.2	147.0
210.0	174.0	2.1	1.6	.0	.0	.7	.7	-.1	.5	.5	32.4	206.4	25.4	148.6
220.0	176.3	2.2	1.6	.0	.0	.7	.7	-.1	.5	.5	33.9	210.2	26.4	149.9
230.0	178.4	2.3	1.6	.0	.0	.7	.7	-.1	.5	.5	35.2	213.6	27.2	151.2
240.0	180.3	2.4	1.7	.0	.0	.8	.8	-.1	.6	.5	36.3	216.6	28.0	152.3
250.0	182.1	2.5	1.7	.0	.0	.8	.8	-.1	.6	.6	37.4	219.5	28.7	153.4
260.0	183.9	2.6	1.7	.0	.0	.8	.8	-.1	.6	.6	38.4	222.3	29.3	154.5
270.0	185.7	2.6	1.7	.0	.0	.8	.8	-.1	.6	.6	39.4	225.0	30.0	155.7
280.0	187.5	2.7	1.8	.0	.0	.8	.8	-.1	.6	.6	40.3	227.8	30.7	156.9
290.0	189.5	2.7	1.8	.0	.0	.8	.8	-.2	.6	.6	41.3	230.8	31.3	158.2
300.0	191.7	2.8	1.8	.0	.0	.9	.9	-.2	.6	.6	42.3	234.0	32.1	159.6
310.0	194.0	2.9	1.9	.0	.0	.9	.9	-.2	.7	.6	43.4	237.4	32.8	161.2
320.0	196.7	2.9	1.9	.0	.0	.9	.9	-.2	.7	.6	44.6	241.2	33.6	163.1

MASS PROPERTIES

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	51.6	.7	.3	.0	.0	.1	.1	.2	.1	.1	7.2	58.8	6.7	44.9
101.0	54.1	.7	.4	.0	.0	.1	.1	.2	.1	.1	7.4	61.5	6.9	47.2
102.0	56.6	.7	.4	.0	.0	.1	.1	.2	.1	.1	7.6	64.2	7.0	49.5
103.0	59.1	.8	.4	.0	.0	.1	.1	.2	.1	.1	7.8	66.9	7.2	51.9
104.0	61.7	.8	.4	.0	.0	.1	.1	.2	.1	.1	8.0	69.7	7.3	54.3
105.0	64.2	.8	.5	.0	.0	.1	.1	.2	.1	.1	8.2	72.4	7.4	56.8
106.0	66.8	.8	.5	.0	.0	.1	.1	.2	.1	.1	8.4	75.2	7.6	59.3
107.0	69.5	.9	.5	.0	.0	.1	.1	.2	.1	.1	8.6	78.1	7.7	61.8
108.0	72.1	.9	.5	.0	.0	.1	.1	.2	.1	.1	8.8	80.9	7.8	64.3
109.0	74.7	.9	.6	.0	.0	.1	.1	.3	.2	.2	9.0	83.7	7.9	66.8
110.0	77.3	.9	.6	.0	.0	.1	.1	.3	.2	.2	9.2	86.6	8.0	69.4
111.0	80.0	1.0	.6	.0	.0	.1	.1	.3	.2	.2	9.4	89.4	8.1	71.9
112.0	82.6	1.0	.7	.0	.0	.1	.1	.3	.2	.2	9.6	92.2	8.2	74.4
113.0	85.1	1.0	.7	.0	.0	.1	.1	.3	.2	.2	9.8	94.9	8.2	76.9
114.0	87.6	1.0	.7	.0	.0	.1	.1	.3	.2	.2	10.1	97.7	8.3	79.3
115.0	90.0	1.1	.7	.0	.0	.1	.1	.3	.2	.2	10.3	100.3	8.3	81.7
116.0	92.4	1.1	.8	.0	.0	.2	.1	.4	.2	.2	10.5	102.9	8.3	84.1
117.0	94.7	1.1	.8	.0	.0	.2	.1	.4	.2	.2	10.8	105.5	8.4	86.3
118.0	96.9	1.1	.8	.0	.0	.2	.1	.4	.2	.2	11.0	107.9	8.4	88.5
119.0	99.0	1.1	.9	.0	.0	.2	.1	.4	.2	.2	11.3	110.4	8.5	90.5
120.0	101.1	1.2	.9	.0	.0	.2	.1	.4	.2	.2	11.6	112.7	8.6	92.5
121.0	103.1	1.2	.9	.0	.0	.2	.1	.4	.2	.2	11.9	115.0	8.7	94.4
122.0	105.1	1.2	.9	.0	.0	.2	.1	.4	.2	.2	12.1	117.2	8.8	96.3
123.0	107.0	1.2	.9	.0	.0	.2	.1	.4	.2	.2	12.4	119.4	9.0	98.0
124.0	108.8	1.2	1.0	.0	.0	.2	.1	.4	.2	.2	12.7	121.5	9.1	99.7
125.0	110.6	1.3	1.0	.0	.0	.2	.1	.5	.2	.2	12.9	123.6	9.4	101.3
126.0	112.4	1.3	1.0	.0	.0	.2	.1	.5	.2	.2	13.2	125.6	9.6	102.8
127.0	114.0	1.3	1.0	.0	.0	.2	.1	.5	.3	.3	13.5	127.5	9.8	104.2
128.0	115.7	1.3	1.1	.0	.0	.2	.1	.5	.3	.3	13.8	129.4	10.0	105.6
129.0	117.3	1.3	1.1	.0	.0	.2	.1	.5	.3	.3	14.0	131.3	10.3	107.0
130.0	118.8	1.3	1.1	.0	.0	.2	.2	.5	.3	.3	14.3	133.1	10.5	108.3
140.0	132.2	1.5	1.3	.0	.0	.2	.2	.6	.3	.3	17.2	149.3	12.8	119.3
150.0	142.4	1.6	1.5	.0	.0	.3	.2	.7	.3	.3	19.9	162.4	15.0	127.4
160.0	151.6	1.6	1.7	.0	.0	.3	.2	.8	.4	.4	22.5	173.0	16.8	133.8
170.0	157.7	1.7	1.8	.0	.0	.3	.2	.8	.4	.4	24.0	181.8	18.7	139.0
180.0	163.4	1.8	2.0	.0	.0	.3	.3	.9	.4	.4	26.4	189.9	21.1	142.4
190.0	167.8	1.8	2.2	.0	.0	.3	.3	1.0	.5	.5	28.6	196.4	22.8	145.0
200.0	171.2	1.8	2.3	.0	.0	.3	.3	1.1	.5	.5	30.6	201.8	24.2	147.0
210.0	174.0	1.9	2.4	.0	.0	.3	.3	1.1	.5	.5	32.4	206.4	25.4	148.6
220.0	176.3	1.9	2.5	.0	.0	.4	.3	1.2	.5	.5	33.9	210.2	26.4	149.9
230.0	178.4	1.9	2.6	.0	.0	.4	.3	1.2	.5	.6	35.2	213.6	27.2	151.2
240.0	180.3	1.9	2.6	.0	.0	.4	.3	1.2	.6	.6	36.3	216.6	28.0	152.3
250.0	182.1	2.0	2.7	.0	.0	.4	.3	1.3	.6	.6	37.4	219.5	28.7	153.4
260.0	183.9	2.0	2.8	.0	.0	.4	.4	1.3	.6	.6	38.4	222.3	29.3	154.5
270.0	185.7	2.0	2.8	.0	.0	.4	.4	1.3	.6	.6	39.4	225.0	30.0	155.7
280.0	187.5	2.0	2.9	.0	.0	.4	.4	1.4	.6	.6	40.3	227.8	30.7	156.9
290.0	189.5	2.1	3.0	.0	.0	.4	.4	1.4	.6	.6	41.3	230.8	31.3	158.2
300.0	191.7	2.1	3.0	.0	.0	.4	.4	1.4	.6	.6	42.3	234.0	32.1	159.6
310.0	194.0	2.1	3.1	.0	.0	.4	.4	1.5	.6	.7	43.4	237.4	32.8	161.2
320.0	196.7	2.2	3.2	.0	.0	.4	.4	1.5	.6	.7	44.6	241.2	33.6	163.1

MASS PROPERTIES

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	199.7	3.0	1.9	.0	.0	.9	.9	-.2	.7	.7	45.8	245.5	34.4	165.2
340.0	203.1	3.0	2.0	.0	.0	.9	.9	-.2	.7	.7	47.1	250.3	35.4	167.8
350.0	207.2	3.1	2.0	.0	.0	1.0	.9	-.2	.7	.7	48.6	255.8	36.4	170.8
360.0	212.1	3.1	2.1	.0	.0	1.0	1.0	-.2	.7	.7	50.2	262.3	37.6	174.5
370.0	217.9	3.2	2.1	.0	.0	1.0	1.0	-.2	.8	.7	52.0	269.8	38.9	179.0
380.0	224.9	3.2	2.2	.0	.0	1.1	1.0	-.3	.8	.8	53.9	278.8	40.3	184.6
390.0	233.5	3.2	2.3	.0	.0	1.1	1.1	-.3	.8	.8	56.1	289.6	42.0	191.5
400.0	244.0	3.2	2.4	.0	.0	1.2	1.1	-.3	.9	.8	58.5	302.5	43.8	200.2
410.0	257.1	3.1	2.5	.0	.0	1.2	1.1	-.3	.9	.8	60.9	317.9	45.8	211.2
420.0	273.1	2.9	2.5	.0	.0	1.3	1.2	-.3	.9	.9	63.3	336.4	47.9	225.2
430.0	292.7	2.7	2.6	.0	.0	1.3	1.2	-.4	1.0	.9	65.8	358.5	49.9	242.8
440.0	316.5	2.4	2.8	.0	.0	1.4	1.3	-.4	1.0	.9	68.3	384.8	51.9	264.6
450.0	344.7	2.0	2.9	.0	.0	1.4	1.3	-.4	1.0	1.0	70.9	415.6	53.7	291.0
460.0	377.7	1.6	3.0	.0	.0	1.5	1.3	-.4	1.0	1.0	73.9	451.6	55.2	322.5
470.0	415.6	1.2	3.0	.0	.0	1.5	1.3	-.4	1.1	1.0	77.5	493.1	56.4	359.3
480.0	458.4	.7	3.1	.0	.0	1.5	1.4	-.4	1.1	1.0	82.3	540.7	57.2	401.2

MASS PROPERTIES

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	199.7	2.3	3.?	.?	.0	.4	.4	1.6	.7	.7	45.8	245.5	34.4	165.2
340.0	203.1	2.3	3.?	.?	.0	.4	.4	1.6	.7	.7	47.1	250.3	35.4	167.8
350.0	207.2	2.4	3.4	.?	.0	.4	.4	1.6	.7	.7	48.6	255.8	36.4	170.8
360.?	212.1	2.5	3.5	.?	.?	.5	.5	1.7	.7	.7	50.2	262.3	37.6	174.5
370.0	217.9	2.7	3.6	.0	.0	.5	.5	1.8	.7	.8	52.0	269.8	38.9	179.0
380.0	224.9	2.9	3.6	.?	.0	.5	.5	1.9	.8	.8	53.9	278.8	40.3	184.6
390.0	233.5	3.1	3.9	.0	.0	.5	.5	1.9	.8	.8	56.1	289.6	42.0	191.5
400.0	244.0	3.4	4.1	.?	.0	.5	.6	2.0	.8	.9	58.5	302.5	43.8	200.2
410.0	257.1	3.7	4.?	.0	.0	.5	.6	2.1	.9	.9	60.9	317.9	45.8	211.2
420.0	273.1	4.1	4.4	.0	.0	.5	.6	2.2	.9	.9	63.3	336.4	47.9	225.2
430.0	292.7	4.6	4.5	.0	.0	.6	.7	2.3	.9	1.0	65.8	358.5	49.9	242.8
440.0	316.5	5.2	4.7	.?	.0	.6	.7	2.?	1.0	1.0	68.3	384.8	51.9	264.6
450.0	344.7	5.8	4.8	.?	.0	.6	.7	2.4	1.0	1.0	70.9	415.6	53.7	291.0
460.0	377.7	6.4	4.9	.?	.0	.6	.7	2.5	1.0	1.1	73.9	451.6	55.2	322.5
470.0	415.6	7.1	5.0	.?	.0	.6	.8	2.5	1.0	1.1	77.5	493.1	56.4	359.3
480.0	458.4	7.7	5.0	.?	.0	.6	.8	2.6	1.0	1.1	82.3	540.7	57.2	401.2

GN/C

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
27.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
29.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
30.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.2
31.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.2
32.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.2
33.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3
34.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3
35.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3
36.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4
37.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4
38.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	.1	.5
39.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.5
40.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.6
41.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	.1	.6
42.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.0	.2	.7
43.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.1	.2	.8
44.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.2	.2	.8
45.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.3	.2	.9
46.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.4	.2	1.0
47.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.6	.2	1.1
48.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.7	.2	1.2
49.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.8	.3	1.3

GN/C

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
27.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
29.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1
30.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.2
31.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.2
32.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.2
33.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3
34.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.1	.3
35.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.1	.3
36.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4
37.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.1	.4
38.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.7	.1	.5
39.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.5
40.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.1	.6
41.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	.1	.6
42.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.0	.2	.7
43.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.1	.2	.8
44.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.2	.2	.8
45.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.3	.2	.9
46.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.4	.2	1.0
47.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.6	.2	1.1
48.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.7	.2	1.2
49.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.8	.3	1.3

GN/C

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.0	.3	1.3
51.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.1	.3	1.4
52.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.2	.3	1.5
53.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.4	.3	1.7
54.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.6	.4	1.8
55.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.5	2.7	.4	1.9
56.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.5	2.9	.4	2.0
57.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.5	3.1	.4	2.1
58.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.3	.5	2.3
59.0	2.9	.1	.0	.0	.0	.0	.0	.0	.0	.6	3.5	.5	2.4
60.0	3.1	.1	.0	.0	.0	.0	.0	.0	.0	.7	3.8	.5	2.5
61.0	3.3	.1	.0	.0	.0	.0	.0	.0	.0	.7	4.0	.6	2.7
62.0	3.5	.1	.1	.0	.0	.0	.0	.0	.0	.8	4.3	.6	2.9
63.0	3.8	.1	.1	.0	.0	.0	.0	.0	.0	.9	4.6	.7	3.1
64.0	4.0	.1	.1	.0	.0	.0	.0	.0	.0	.9	5.0	.8	3.3
65.0	4.4	.1	.1	.0	.0	.0	.0	.0	.0	1.0	5.3	.9	3.5
66.0	4.7	.1	.1	.0	.0	-.1	.0	.0	.0	1.1	5.8	1.0	3.8
67.0	5.1	.2	.1	.0	.0	-.1	.0	.0	.0	1.1	6.2	1.0	4.0
68.0	5.5	.2	.1	.0	.0	-.1	.0	.0	.0	1.2	6.7	1.2	4.4
69.0	6.0	.2	.1	.0	.0	-.1	.0	.0	.0	1.3	7.3	1.3	4.7
70.0	6.5	.2	.1	.0	.0	-.1	.0	.0	.0	1.5	7.9	1.4	5.1
71.0	7.0	.2	.1	.0	.0	-.1	.0	.0	.0	1.6	8.6	1.5	5.5
72.0	7.6	.3	.2	.0	.0	-.1	.0	.0	.0	1.7	9.3	1.6	6.0
73.0	8.3	.3	.2	.0	.0	-.1	.0	.0	.0	1.8	10.1	1.8	6.5
74.0	9.0	.3	.2	.0	.0	-.1	.0	.0	.0	2.0	11.0	1.9	7.1
75.0	9.8	.4	.2	-.1	.0	-.1	.0	.0	.0	2.1	11.9	2.1	7.7
76.0	10.6	.4	.2	-.1	.0	-.1	.0	.0	.0	2.3	13.0	2.3	8.4
77.0	11.6	.5	.3	-.1	.0	-.1	.0	.0	.0	2.5	14.0	2.4	9.1
78.0	12.5	.5	.3	-.1	.0	-.1	.0	.0	.0	2.7	15.2	2.6	9.9
79.0	13.6	.6	.3	-.1	.0	-.2	.0	.0	.0	2.9	16.4	2.8	10.8
80.0	14.7	.6	.4	-.1	.0	-.2	.0	.0	.0	3.0	17.8	3.0	11.7
81.0	15.9	.7	.4	-.1	.0	-.2	.0	.0	.0	3.2	19.1	3.2	12.7
82.0	17.2	.7	.4	-.1	.0	-.2	.0	.0	.0	3.4	20.6	3.4	13.8
83.0	18.5	.8	.5	-.1	.1	-.2	.0	.0	.0	3.6	22.2	3.6	14.9
84.0	19.9	.9	.5	-.1	.1	-.2	.0	.0	.0	3.8	23.8	3.8	16.1
85.0	21.4	1.0	.6	-.1	.1	-.3	.0	.0	.0	4.0	25.5	4.0	17.4
86.0	23.0	1.0	.6	-.1	.1	-.3	.1	.1	.0	4.2	27.2	4.2	18.8
87.0	24.6	1.1	.7	-.1	.1	-.3	.1	.1	.0	4.4	29.1	4.4	20.2
88.0	26.3	1.2	.7	-.2	.1	-.3	.1	.1	.0	4.6	31.0	4.6	21.7
89.0	28.1	1.3	.8	-.2	.1	-.3	.1	.1	.0	4.9	33.0	4.8	23.3
90.0	30.0	1.4	.9	-.2	.1	-.4	.1	.1	.1	5.1	35.0	5.0	24.9
91.0	31.9	1.5	.9	-.2	.1	-.4	.1	.1	.1	5.3	37.1	5.2	26.7
92.0	33.9	1.6	1.0	-.2	.1	-.4	.1	.1	.1	5.5	39.3	5.4	28.4
93.0	35.9	1.8	1.1	-.2	.1	-.4	.1	.1	.1	5.7	41.6	5.6	30.3
94.0	38.0	1.9	1.2	-.2	.1	-.5	.1	.1	.1	5.9	43.9	5.8	32.2
95.0	40.1	2.0	1.2	-.2	.1	-.5	.1	.1	.1	6.1	46.2	5.9	34.2
96.0	42.3	2.1	1.3	-.3	.1	-.5	.1	.1	.1	6.3	48.6	6.1	36.2
97.0	44.6	2.3	1.4	-.3	.2	-.6	.1	.1	.1	6.5	51.1	6.2	38.3
98.0	46.9	2.4	1.5	-.3	.2	-.6	.1	.1	.1	6.7	53.6	6.4	40.5
99.0	49.2	2.6	1.6	-.3	.2	-.6	.1	.1	.1	7.0	56.2	6.6	42.7

GN/C

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.0	.3	1.3
51.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.1	.3	1.4
52.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.2	.3	1.5
53.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.4	.3	1.7
54.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.6	.4	1.8
55.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.5	2.7	.4	1.9
56.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.5	2.9	.4	2.0
57.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.5	3.1	.4	2.1
58.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.3	.5	2.3
59.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.5	.5	2.4
60.0	3.1	-.1	.0	.0	.0	.1	.0	.0	.0	.7	3.8	.5	2.5
61.0	3.3	-.1	.0	.0	.0	.1	.0	.0	.0	.7	4.0	.6	2.7
62.0	3.5	-.1	.0	.0	.0	.1	.0	.0	.0	.8	4.3	.6	2.9
63.0	3.8	-.1	-.1	.0	.0	.1	.0	.0	.0	.9	4.6	.7	3.1
64.0	4.0	-.1	-.1	.0	.0	.1	.0	.0	.0	.9	5.0	.8	3.3
65.0	4.4	-.1	-.1	.0	.0	.1	.0	.0	.0	1.0	5.3	.9	3.5
66.0	4.7	-.1	-.1	.0	.0	.1	.0	.0	.0	1.1	5.8	1.0	3.8
67.0	5.1	-.1	-.1	.0	.0	.1	.0	.0	.0	1.1	6.2	1.0	4.0
68.0	5.5	-.1	-.1	.0	.0	.1	.0	.0	.0	1.2	6.7	1.2	4.4
69.0	6.0	-.2	-.1	.0	.0	.1	.0	.0	.0	1.3	7.3	1.3	4.7
70.0	6.5	-.2	-.1	.1	.0	.1	.0	.0	.0	1.5	7.9	1.4	5.1
71.0	7.0	-.2	-.1	.1	.0	.1	.0	.0	.0	1.6	8.6	1.5	5.5
72.0	7.6	-.2	-.1	.1	.0	.2	.0	.0	.0	1.7	9.3	1.6	6.0
73.0	8.3	-.3	-.2	.1	.0	.2	.0	.0	.0	1.8	10.1	1.8	6.5
74.0	9.0	-.3	-.2	.1	.0	.2	.0	.0	.0	2.0	11.0	1.9	7.1
75.0	9.8	-.3	-.2	.1	.0	.2	.0	.0	.0	2.1	11.9	2.1	7.7
76.0	10.6	-.4	-.2	.1	.0	.2	.0	.0	.0	2.3	13.0	2.3	8.4
77.0	11.6	-.4	-.2	.1	.0	.3	.0	.0	.0	2.5	14.0	2.4	9.1
78.0	12.5	-.4	-.3	.1	.0	.3	.0	.0	.0	2.7	15.2	2.6	9.9
79.0	13.6	-.5	-.3	.1	.0	.3	.0	.0	.0	2.9	16.4	2.8	10.8
80.0	14.7	-.5	-.3	.1	.0	.3	.0	.0	.0	3.0	17.8	3.0	11.7
81.0	15.9	-.6	-.3	.1	.0	.4	.0	.0	.0	3.2	19.1	3.2	12.7
82.0	17.2	-.6	-.4	.2	.0	.4	.0	.0	.0	3.4	20.6	3.4	13.8
83.0	18.5	-.7	-.4	.2	.0	.4	.0	.0	.0	3.6	22.2	3.6	14.9
84.0	19.9	-.8	-.5	.2	.0	.4	.0	.0	.0	3.8	23.8	3.8	16.1
85.0	21.4	-.8	-.5	.2	.0	.5	.0	.0	.0	4.0	25.5	4.0	17.4
86.0	23.0	-.9	-.5	.2	.0	.5	.0	.0	.0	4.2	27.2	4.2	18.8
87.0	24.6	-1.0	-.6	.2	.0	.6	.0	.0	.0	4.4	29.1	4.4	20.2
88.0	26.3	-1.1	-.6	.2	.0	.6	.0	.0	.0	4.6	31.0	4.6	21.7
89.0	28.1	-1.2	-.7	.3	.0	.6	.0	.0	.0	4.9	33.0	4.8	23.3
90.0	30.0	-1.2	-.7	.3	.0	.7	.0	.0	.1	5.1	35.0	5.0	24.9
91.0	31.9	-1.3	-.8	.3	.0	.7	.0	.0	.1	5.3	37.1	5.2	26.7
92.0	33.9	-1.4	-.9	.3	.0	.8	.0	.0	.1	5.5	39.3	5.4	28.4
93.0	35.9	-1.5	-.9	.3	.0	.9	.1	.0	.1	5.7	41.6	5.6	30.3
94.0	38.0	-1.7	-1.0	.4	.0	.9	.1	.0	.1	5.9	43.9	5.8	32.2
95.0	40.1	-1.8	-1.1	.4	.0	1.0	.1	.0	.1	6.1	46.2	5.9	34.2
96.0	42.3	-1.9	-1.2	.4	.0	1.0	.1	.1	.1	6.3	48.6	6.1	36.2
97.0	44.6	-2.0	-1.2	.4	.0	1.1	.1	.1	.1	6.5	51.1	6.2	38.3
98.0	46.9	-2.1	-1.3	.5	.0	1.1	.1	.1	.1	6.7	53.6	6.4	40.5
99.0	49.2	-2.2	-1.4	.5	.0	1.2	.1	.1	.1	7.0	56.2	6.6	42.7

GN/C

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	51.6	2.7	1.7	-.3	.2	-.7	.1	.1	.1	7.2	58.8	6.7	44.9
101.0	54.1	2.9	1.8	-.3	.2	-.7	.1	.1	.1	7.4	61.5	6.9	47.2
102.0	56.6	3.0	1.9	-.3	.2	-.7	.1	.2	.1	7.6	64.2	7.0	49.5
103.0	59.1	3.2	2.0	-.4	.2	-.8	.1	.2	.1	7.8	66.9	7.2	51.9
104.0	61.7	3.3	2.1	-.4	.2	-.8	.2	.2	.1	8.0	69.7	7.3	54.3
105.0	64.2	3.5	2.2	-.4	.2	-.8	.2	.2	.1	8.2	72.4	7.4	56.8
106.0	66.8	3.7	2.3	-.4	.3	-.9	.2	.2	.1	8.4	75.2	7.6	59.3
107.0	69.5	3.8	2.5	-.4	.3	-.9	.2	.2	.1	8.6	78.1	7.7	61.8
108.0	72.1	4.0	2.6	-.5	.3	-1.0	.2	.2	.1	8.8	80.9	7.8	64.3
109.0	74.7	4.2	2.7	-.5	.3	-1.0	.2	.2	.2	9.0	83.7	7.9	66.8
110.0	77.3	4.4	2.9	-.5	.3	-1.1	.2	.2	.2	9.2	86.6	8.0	69.4
111.0	80.0	4.5	3.0	-.5	.3	-1.1	.2	.2	.2	9.4	89.4	8.1	71.9
112.0	82.6	4.7	3.1	-.5	.3	-1.1	.2	.2	.2	9.6	92.2	8.2	74.4
113.0	85.1	4.9	3.2	-.6	.4	-1.2	.2	.3	.2	9.8	94.9	8.2	76.9
114.0	87.6	5.1	3.4	-.6	.4	-1.2	.2	.3	.2	10.1	97.7	8.3	79.3
115.0	90.0	5.3	3.5	-.6	.4	-1.3	.2	.3	.2	10.3	100.3	8.3	81.7
116.0	92.4	5.4	3.6	-.6	.4	-1.3	.3	.3	.2	10.5	102.9	8.3	84.1
117.0	94.7	5.6	3.7	-.6	.4	-1.4	.3	.3	.2	10.8	105.5	8.4	86.3
118.0	96.9	5.7	3.8	-.6	.4	-1.4	.3	.3	.2	11.0	107.9	8.4	88.5
119.0	99.0	5.9	4.0	-.7	.4	-1.5	.3	.3	.2	11.3	110.4	8.5	90.5
120.0	101.1	6.0	4.1	-.7	.5	-1.5	.3	.3	.2	11.6	112.7	8.6	92.5
121.0	103.1	6.2	4.2	-.7	.5	-1.5	.3	.3	.2	11.9	115.0	8.7	94.4
122.0	105.1	6.3	4.3	-.7	.5	-1.6	.3	.3	.2	12.1	117.2	8.8	96.3
123.0	107.0	6.5	4.4	-.7	.5	-1.6	.3	.3	.2	12.4	119.4	9.0	98.0
124.0	108.8	6.6	4.5	-.7	.5	-1.6	.3	.4	.2	12.7	121.5	9.1	99.7
125.0	110.6	6.7	4.6	-.8	.5	-1.7	.3	.4	.2	12.9	123.6	9.4	101.3
126.0	112.4	6.9	4.7	-.8	.5	-1.7	.3	.4	.2	13.2	125.6	9.6	102.8
127.0	114.0	7.0	4.8	-.8	.5	-1.8	.3	.4	.3	13.5	127.5	9.8	104.2
128.0	115.7	7.1	4.9	-.8	.5	-1.8	.3	.4	.3	13.8	129.4	10.0	105.6
129.0	117.3	7.3	5.0	-.8	.6	-1.8	.3	.4	.3	14.0	131.3	10.3	107.0
130.0	118.8	7.4	5.1	-.8	.6	-1.9	.4	.4	.3	14.3	133.1	10.5	108.3
140.0	132.2	8.6	6.0	-1.0	.7	-2.2	.4	.5	.3	17.2	149.3	12.8	119.3
150.0	142.4	9.7	6.8	-1.1	.8	-2.6	.5	.5	.3	19.9	162.4	15.0	127.4
160.0	150.6	10.7	7.5	-1.2	.8	-2.8	.5	.6	.4	22.5	173.0	16.8	133.8
170.0	157.7	11.4	8.1	-1.3	.9	-3.1	.5	.6	.4	24.0	181.8	18.7	139.0
180.0	163.4	12.5	8.9	-1.4	1.0	-3.5	.6	.7	.4	26.4	189.9	21.1	142.4
190.0	167.8	13.3	9.5	-1.5	1.1	-3.7	.6	.7	.5	28.6	196.4	22.9	145.0
200.0	171.2	14.0	10.0	-1.6	1.1	-4.0	.7	.8	.5	30.6	201.8	24.2	147.0
210.0	174.0	14.7	10.5	-1.7	1.2	-4.1	.7	.8	.5	32.4	206.4	25.4	148.6
220.0	176.3	15.2	10.9	-1.7	1.2	-4.3	.7	.8	.5	33.9	210.2	26.4	149.9
230.0	178.4	15.6	11.2	-1.8	1.3	-4.5	.7	.8	.6	35.2	213.6	27.2	151.2
240.0	180.3	16.1	11.5	-1.8	1.3	-4.6	.8	.9	.6	36.3	216.6	28.0	152.3
250.0	182.1	16.4	11.8	-1.9	1.3	-4.7	.8	.9	.6	37.4	219.5	28.7	153.4
260.0	183.9	16.8	12.1	-1.9	1.4	-4.8	.8	.9	.6	38.4	222.3	29.3	154.5
270.0	185.7	17.1	12.3	-2.0	1.4	-4.9	.8	.9	.6	39.4	225.0	30.0	155.7
280.0	187.5	17.5	12.6	-2.0	1.4	-5.0	.8	.9	.6	40.3	227.8	30.7	156.9
290.0	189.5	17.9	12.9	-2.0	1.5	-5.2	.9	1.0	.7	41.3	230.8	31.3	158.2
300.0	191.7	18.2	13.2	-2.1	1.5	-5.3	.9	1.0	.7	42.3	234.0	32.1	159.6
310.0	194.0	18.6	13.5	-2.1	1.6	-5.4	.9	1.0	.7	43.4	237.4	32.8	161.2
320.0	196.7	19.0	13.8	-2.2	1.6	-5.6	.9	1.0	.7	44.6	241.2	33.6	163.1

GN/C

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	51.6	-2.4	-1.5	.5	.0	1.3	.1	.1	.1	7.2	58.8	6.7	44.9
101.0	54.1	-2.5	-1.6	.5	.0	1.3	.1	.1	.1	7.4	61.5	6.9	47.2
102.0	56.6	-2.6	-1.7	.6	.0	1.4	.1	.1	.1	7.6	64.2	7.0	49.5
103.0	59.1	-2.8	-1.8	.6	.0	1.5	.1	.1	.1	7.8	66.9	7.2	51.9
104.0	61.7	-2.9	-1.9	.6	.0	1.6	.1	.1	.1	8.0	69.7	7.3	54.3
105.0	64.2	-3.1	-2.0	.7	.0	1.6	.1	.1	.1	8.2	72.4	7.4	56.8
106.0	66.8	-3.2	-2.1	.7	.0	1.7	.1	.1	.1	8.4	75.2	7.6	59.3
107.0	69.5	-3.4	-2.2	.7	.0	1.8	.1	.1	.1	8.6	78.1	7.7	61.8
108.0	72.1	-3.5	-2.3	.8	.0	1.9	.1	.1	.1	8.8	80.9	7.8	64.3
109.0	74.7	-3.7	-2.4	.8	.0	2.0	.1	.1	.2	9.0	83.7	7.9	66.8
110.0	77.3	-3.8	-2.6	.8	.0	2.1	.1	.1	.2	9.2	86.6	8.0	69.4
111.0	80.0	-4.0	-2.7	.9	.0	2.1	.1	.1	.2	9.4	89.4	8.1	71.9
112.0	82.6	-4.2	-2.8	.9	.0	2.2	.1	.1	.2	9.6	92.2	8.2	74.4
113.0	85.1	-4.3	-2.9	.9	.0	2.3	.1	.1	.2	9.8	94.9	8.2	76.9
114.0	87.6	-4.5	-3.0	.9	.0	2.4	.1	.1	.2	10.1	97.7	8.3	79.3
115.0	90.0	-4.6	-3.1	1.0	.0	2.5	.1	.1	.2	10.3	100.3	8.3	81.7
116.0	92.4	-4.8	-3.2	1.0	.0	2.6	.1	.1	.2	10.5	102.9	8.3	84.1
117.0	94.7	-4.9	-3.4	1.0	.0	2.6	.1	.1	.2	10.8	105.5	8.4	86.3
118.0	96.9	-5.0	-3.5	1.1	.0	2.7	.1	.1	.2	11.0	107.9	8.4	88.5
119.0	99.0	-5.2	-3.6	1.1	.0	2.8	.2	.1	.2	11.3	110.4	8.5	90.5
120.0	101.1	-5.3	-3.7	1.1	.0	2.9	.2	.1	.2	11.6	112.7	8.6	92.5
121.0	103.1	-5.4	-3.8	1.1	.0	2.9	.2	.1	.2	11.9	115.0	8.7	94.4
122.0	105.1	-5.6	-3.8	1.2	.0	3.0	.2	.1	.2	12.1	117.2	8.8	96.3
123.0	107.0	-5.7	-3.9	1.2	.0	3.1	.2	.1	.2	12.4	119.4	9.0	98.0
124.0	108.8	-5.8	-4.0	1.2	.0	3.1	.2	.1	.2	12.7	121.5	9.1	99.7
125.0	110.6	-5.9	-4.1	1.2	.0	3.2	.2	.1	.2	12.9	123.6	9.4	101.3
126.0	112.4	-6.0	-4.2	1.3	.0	3.3	.2	.1	.2	13.2	125.6	9.6	102.8
127.0	114.0	-6.2	-4.3	1.3	.0	3.4	.2	.1	.3	13.5	127.5	9.8	104.2
128.0	115.7	-6.3	-4.4	1.3	.0	3.4	.2	.1	.3	13.8	129.4	10.0	105.6
129.0	117.3	-6.4	-4.5	1.3	.0	3.5	.2	.1	.3	14.0	131.3	10.3	107.0
130.0	118.8	-6.5	-4.6	1.4	.0	3.5	.2	.1	.3	14.3	133.1	10.5	108.3
140.0	132.2	-7.6	-5.4	1.6	-.1	4.2	.2	.2	.3	17.2	149.3	12.8	119.3
150.0	142.4	-8.5	-6.1	1.8	-.1	4.8	.2	.2	.3	19.9	162.4	15.0	127.4
160.0	150.6	-9.3	-6.7	2.0	-.1	5.3	.2	.2	.4	22.5	173.0	16.8	133.8
170.0	157.7	-10.0	-7.3	2.1	-.1	5.7	.3	.2	.4	24.0	181.8	18.7	139.0
180.0	163.4	-10.9	-8.0	2.3	-.1	6.3	.3	.2	.4	26.4	189.9	21.1	142.4
190.0	167.8	-11.6	-8.5	2.5	-.2	6.8	.3	.2	.5	28.6	196.4	22.8	145.0
200.0	171.2	-12.2	-9.0	2.6	-.2	7.2	.3	.2	.5	30.6	201.8	24.2	147.0
210.0	174.0	-12.7	-9.4	2.7	-.2	7.5	.3	.2	.5	32.4	206.4	25.4	148.6
220.0	176.3	-13.1	-9.7	2.9	-.2	7.8	.3	.2	.5	33.9	210.2	26.4	149.9
230.0	178.4	-13.4	-10.0	2.9	-.2	8.1	.3	.2	.5	35.2	213.6	27.2	151.2
240.0	180.3	-13.7	-10.2	3.0	-.2	8.3	.3	.2	.5	36.3	216.6	28.0	152.3
250.0	182.1	-14.0	-10.5	3.1	-.2	8.5	.4	.2	.6	37.4	219.5	28.7	153.4
260.0	183.9	-14.3	-10.7	3.1	-.2	8.7	.4	.2	.6	38.4	222.3	29.3	154.5
270.0	185.7	-14.6	-10.9	3.2	-.2	8.9	.4	.2	.6	39.4	225.0	30.0	155.7
280.0	187.5	-14.9	-11.1	3.3	-.2	9.1	.4	.2	.6	40.3	227.8	30.7	156.9
290.0	189.5	-15.2	-11.4	3.4	-.2	9.3	.4	.2	.6	41.3	230.8	31.3	158.2
300.0	191.7	-15.5	-11.6	3.4	-.3	9.6	.4	.2	.6	42.3	234.0	32.1	159.6
310.0	194.0	-15.8	-11.8	3.5	-.3	9.8	.4	.2	.6	43.4	237.4	32.8	161.2
320.0	196.7	-16.1	-12.1	3.6	-.3	10.0	.4	.2	.6	44.6	241.2	33.6	163.1

GN/C

AHI POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	199.7	19.5	14.2	-2.2	1.6	-5.7	1.0	1.1	.7	45.8	245.5	34.4	165.2
340.0	203.1	20.0	14.6	-2.3	1.7	-5.9	1.0	1.1	.6	47.1	250.3	35.4	167.8
350.0	207.2	20.5	15.1	-2.4	1.7	-6.1	1.1	1.1	.8	48.6	255.8	36.4	170.8
360.0	212.1	21.1	15.6	-2.4	1.8	-6.3	1.1	1.2	.8	50.2	262.3	37.6	174.5
370.0	217.9	21.8	16.1	-2.5	1.9	-6.5	1.2	1.2	.9	52.0	269.8	38.9	179.0
380.0	224.9	22.5	16.8	-2.6	2.0	-6.7	1.2	1.2	.9	53.9	278.8	40.3	184.6
390.0	233.5	23.4	17.5	-2.7	2.1	-7.0	1.3	1.3	.9	56.1	289.6	42.0	191.5
400.0	244.0	24.3	18.3	-2.8	2.2	-7.4	1.5	1.3	.9	58.5	302.5	43.8	200.2
410.0	257.1	25.2	19.2	-2.9	2.3	-7.7	1.6	1.4	.9	60.9	317.9	45.8	211.2
420.0	273.1	26.1	20.1	-3.0	2.4	-8.0	1.7	1.5	.9	63.3	336.4	47.9	225.2
430.0	292.7	27.0	21.0	-3.2	2.5	-8.4	1.9	1.5	.8	65.8	358.5	49.9	242.8
440.0	316.5	27.9	21.9	-3.3	2.7	-8.7	2.1	1.6	.6	68.3	384.8	51.9	264.6
450.0	344.7	28.8	22.8	-3.4	2.8	-9.0	2.2	1.6	.2	70.9	415.6	53.7	291.0
460.0	377.7	29.5	23.6	-3.5	2.9	-9.3	2.4	1.7	-.3	73.9	451.6	55.2	322.5
470.0	415.6	30.0	24.2	-3.5	2.9	-9.5	2.5	1.7	-1.1	77.5	493.1	56.4	359.3
480.0	456.4	30.4	24.5	-3.6	3.0	-9.6	2.6	1.7	-2.0	82.3	540.7	57.2	401.2

FN/C

AHI NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-PSS	NOM-RSS
330.0	199.7	-16.5	-12.4	3.7	-.3	10.3	.4	.3	.6	45.8	245.5	34.4	165.2
340.0	203.1	-16.9	-12.7	3.8	-.3	10.6	.4	.3	.6	47.1	250.3	35.4	167.8
350.0	207.2	-17.3	-13.1	3.9	-.3	10.9	.4	.3	.7	48.6	255.8	36.4	170.8
360.0	212.1	-17.8	-13.5	4.0	-.3	11.3	.4	.3	.7	50.2	262.3	37.6	174.5
370.0	217.9	-18.3	-13.9	4.1	-.4	11.7	.4	.3	.7	52.0	269.8	38.9	179.0
380.0	224.9	-19.0	-14.4	4.3	-.4	12.1	.4	.3	.7	53.9	278.8	40.3	184.6
390.0	233.5	-19.7	-15.0	4.4	-.4	12.6	.4	.3	.8	56.1	289.6	42.0	191.5
400.0	244.0	-20.6	-15.6	4.6	-.4	13.1	.4	.3	.9	58.5	302.5	43.8	200.2
410.0	257.1	-21.3	-16.3	4.8	-.5	13.7	.4	.3	1.0	60.9	317.9	45.8	211.2
420.0	273.1	-22.2	-17.0	5.0	-.5	14.2	.4	.3	1.1	63.3	336.4	47.9	225.2
430.0	292.7	-23.1	-17.7	5.2	-.5	14.8	.4	.4	1.3	65.8	358.5	49.9	242.8
440.0	316.5	-23.9	-18.4	5.4	-.5	15.3	.4	.4	1.6	68.3	384.8	51.9	264.6
450.0	344.7	-24.7	-19.0	5.5	-.6	15.8	.4	.4	2.0	70.9	415.6	53.7	291.0
460.0	377.7	-25.4	-19.5	5.7	-.6	16.2	.4	.4	2.6	73.9	451.6	55.2	322.5
470.0	415.6	-25.9	-20.0	5.8	-.6	16.5	.5	.4	3.3	77.5	493.1	56.4	359.3
480.0	458.4	-26.3	-20.2	5.9	-.6	16.8	.5	.4	4.3	82.3	540.7	57.2	401.2

PROPULSION

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	-.3	-.1	.0	.0	.0	.0	-.4	.0	.0	.0	-.1	.0	.4	.1	.4	-.7
2.0	4.4	.5	.0	-.1	-.1	-.1	.0	.0	.0	.0	.0	.0	.5	4.9	.4	4.0
3.0	5.6	.6	.0	-.1	-.2	-.1	.2	.0	.0	.0	.1	.0	.7	6.2	.6	5.0
4.0	6.0	.6	.0	-.1	-.2	-.1	.3	.0	.0	.0	.1	.0	.7	6.7	.6	5.3
5.0	6.2	.6	.0	-.1	-.2	-.1	.4	.0	.0	.0	.1	.0	.8	6.9	.7	5.5
6.0	6.2	.6	.0	-.1	-.2	-.1	.4	.0	.0	.0	.1	.0	.8	7.0	.7	5.5
7.0	6.2	.6	.0	-.1	-.2	-.1	.5	.0	.1	.0	.1	.0	.8	7.0	.7	5.5
8.0	6.6	.4	.0	.1	-.1	.1	.5	.0	.2	.0	.3	.0	.8	7.3	.5	6.0
9.0	7.7	.1	.0	.2	-.1	.1	.5	.1	.3	.0	.4	.0	.9	8.6	.5	7.2
10.0	9.0	.2	.0	.1	-.3	.0	.5	.2	.2	.0	.3	.0	.7	9.7	.6	8.4
11.0	9.6	.4	.0	.0	-.4	-.2	.4	.3	.1	.0	.1	.1	.8	10.3	.8	8.8
12.0	9.7	.4	.0	-.1	-.5	-.2	.3	.4	.0	.0	.1	.1	.8	10.5	.9	8.8
13.0	9.5	.4	.0	-.1	-.6	-.3	.3	.5	-.1	.0	.0	.1	.8	10.3	.9	8.6
14.0	9.2	.4	.0	-.1	-.6	-.3	.2	.5	-.1	.0	-.1	.1	.8	10.0	1.0	8.2
15.0	8.7	.3	.0	-.1	-.6	-.3	.1	.5	-.1	.0	-.1	.1	.8	9.5	.9	7.8
16.0	8.3	.2	.0	-.1	-.6	-.3	.0	.5	-.1	.0	-.2	.1	.7	9.0	.9	7.3
17.0	7.6	.2	.0	-.2	-.7	-.4	.0	.5	-.2	.0	-.3	.1	.7	8.3	1.2	6.4
18.0	6.2	.4	.0	-.3	-.7	-.5	.0	.5	-.3	.0	-.4	.1	.8	7.0	1.4	4.8
19.0	4.7	.3	.0	-.3	-.6	-.4	.0	.5	-.3	.0	-.3	.1	.8	5.4	1.2	3.5
20.0	3.5	.0	.0	-.2	-.5	-.4	.0	.5	-.3	.0	-.3	.1	.7	4.2	1.3	2.2
21.0	2.6	-.1	.0	-.2	-.7	-.4	.1	.5	-.2	.0	-.2	.1	.8	3.4	1.6	1.0
22.0	1.9	.2	.0	-.1	-.7	-.4	.1	.5	-.2	.0	-.2	.1	1.0	2.9	1.6	.3
23.0	1.2	.8	.0	-.2	-.6	-.3	.1	.5	-.1	.0	-.2	.1	1.2	2.4	1.5	-.3
24.0	.2	1.0	.0	-.2	-.4	-.2	.1	.4	-.1	.0	-.1	.1	1.4	1.6	1.1	-.9
25.0	-.6	.8	.0	-.1	-.2	.0	.1	.4	-.1	.0	-.1	.1	1.2	.6	1.1	-1.7
26.0	-1.3	.7	.0	-.1	-.4	-.1	.1	.3	-.1	.0	-.1	.1	1.1	-.2	1.2	-2.5
27.0	-1.8	.5	.0	-.1	-.6	-.4	.1	.3	-.1	.0	-.1	.1	1.0	-.8	1.3	-3.2
28.0	-2.0	.1	.0	.0	-.8	-.7	.1	.2	-.1	.0	-.1	.1	.9	-1.2	1.6	-3.7
29.0	-2.2	.0	.0	.0	-.9	-.9	.0	.2	.0	.0	.0	.0	.9	-1.3	1.7	-4.0
30.0	-2.4	.0	.0	.0	-.8	-.9	.0	.2	.0	.0	.0	.0	.9	-1.5	1.6	-4.0
31.0	-2.5	-.1	.0	.0	-.7	-.7	.0	.2	.0	.0	.0	.0	.9	-1.7	1.3	-3.8
32.0	-2.6	-.2	.0	.0	-.5	-.6	.0	.1	.0	.0	.0	.0	.9	-1.7	1.1	-3.7
33.0	-2.6	-.3	.0	.0	-.4	-.5	.0	.1	.0	.0	.0	.0	.9	-1.7	1.0	-3.6
34.0	-2.7	-.2	.0	.0	-.3	-.3	.0	.1	.0	.0	.0	.0	.9	-1.8	.9	-3.6
35.0	-2.7	-.1	.0	.0	-.2	-.3	.0	.1	.0	.0	.0	.0	.9	-1.9	.9	-3.6
36.0	-2.9	-.1	.0	.0	-.2	-.3	.0	.1	.0	.0	.0	.0	.9	-2.0	.9	-3.7
37.0	-3.0	-.1	.0	.0	-.2	-.2	.0	.1	.0	.0	.0	.0	.9	-2.1	.9	-3.8
38.0	-3.0	-.1	.0	.0	-.2	-.2	.0	.0	.0	.0	.0	.0	.8	-2.2	.8	-3.9
39.0	-3.1	-.2	.0	.0	-.1	-.2	.0	.0	.0	.0	.0	.0	.8	-2.2	.8	-3.9
40.0	-3.1	-.2	.0	.0	-.1	-.2	.0	.0	.0	.0	.0	.0	.8	-2.3	.7	-3.8
41.0	-3.1	-.1	.0	.0	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	-2.4	.7	-3.8
42.0	-3.2	-.1	.0	.0	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	-2.6	.7	-3.9
43.0	-3.3	.0	.0	.0	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	-2.7	.7	-4.0
44.0	-3.5	.0	.0	.0	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	-2.8	.6	-4.1
45.0	-3.5	.0	.0	.0	-.1	-.2	-.1	.0	.0	.0	.0	.0	.7	-2.9	.6	-4.2
46.0	-3.6	-.1	.0	.0	-.1	-.2	-.1	.0	.0	.0	.0	.0	.7	-2.9	.6	-4.2
47.0	-3.6	-.2	.0	.0	.0	-.2	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
48.0	-3.6	-.3	.0	.0	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
49.0	-3.6	-.3	.0	.0	-.1	-.2	.1	.1	.0	.0	.0	.0	.7	-2.9	.7	-4.3

PROPULSION

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	-.3	.1	.0	.0	.0	.0	.4	.0	.0	.0	.1	.0	.4	.1	.4	-.7
2.0	4.4	-.4	.0	.1	.1	.1	-.1	.0	.0	.0	.0	.0	.5	4.9	.4	4.0
3.0	5.6	-.5	.0	.1	.2	.1	-.2	.0	.0	.0	-.1	.0	.7	6.2	.6	5.0
4.0	6.0	-.5	.0	.1	.2	.1	-.3	.0	.0	.0	-.1	.0	.7	6.7	.6	5.3
5.0	6.2	-.5	.0	.1	.2	.1	-.4	.0	.0	.0	-.1	.0	.8	6.9	.7	5.5
6.0	6.2	-.5	.0	.1	.2	.1	-.4	.0	.0	.0	-.1	.0	.8	7.0	.7	5.5
7.0	6.2	-.4	.0	.1	.2	.1	-.5	.0	.0	.0	-.1	.0	.8	7.0	.7	5.5
8.0	6.6	.0	.0	.1	.2	.1	-.5	.0	.0	.0	-.1	.0	.8	7.3	.5	6.0
9.0	7.7	.2	.0	.1	.1	.1	-.5	.0	.0	.0	-.1	.0	.9	8.6	.5	7.2
10.0	9.0	-.1	.0	.1	-.1	.2	-.5	.0	.0	.0	-.1	.0	.7	9.7	.6	8.4
11.0	9.6	-.3	.0	.1	-.2	.2	-.4	.0	.0	.0	-.1	.0	.8	10.3	.8	8.8
12.0	9.7	-.4	.0	.0	-.3	.2	-.3	.0	.0	.0	-.1	.0	.8	10.5	.9	8.8
13.0	9.5	-.4	.0	.0	-.4	.2	-.2	.0	.0	.0	-.1	.0	.8	10.3	.9	8.6
14.0	9.2	-.4	.0	.0	-.5	.2	-.2	.0	.0	.0	.0	.0	.8	10.0	1.0	8.2
15.0	8.7	-.4	.0	.0	-.5	.2	-.1	.0	.0	.0	.0	.0	.8	9.5	.9	7.8
16.0	8.3	-.3	.0	.0	-.6	.2	.0	.0	.0	.0	.0	.0	.7	9.0	.9	7.3
17.0	7.6	-.6	.0	.0	-.6	.2	.0	.0	.0	.0	.0	.0	.7	8.3	1.2	6.4
18.0	6.2	-.7	.0	.0	-.6	.2	.0	.0	.0	.0	.0	.0	.8	7.0	1.4	4.8
19.0	4.7	-.5	.0	-.1	-.6	.1	.0	.0	.0	.0	.0	.0	.8	5.4	1.2	3.5
20.0	3.5	-.8	.0	-.1	-.6	.1	.0	.0	.0	.0	.0	.0	.7	4.2	1.3	2.2
21.0	2.6	-1.2	.0	.0	-.5	.1	-.1	.0	.0	.0	.0	.0	.8	3.4	1.6	1.0
22.0	1.9	-1.2	.0	.1	-.3	.2	-.1	.0	.1	.0	.0	.0	1.0	2.9	1.6	.3
23.0	1.2	-1.1	.0	.1	-.2	.2	-.1	.0	.1	.0	.0	.0	1.2	2.4	1.5	-.3
24.0	.2	-.8	.0	.1	-.1	.2	-.1	.0	.1	.0	.0	.0	1.4	1.6	1.1	-.9
25.0	-.6	-.8	.0	.1	-.2	.2	-.1	.0	.1	.0	.0	.0	1.2	.6	1.1	-1.7
26.0	-1.3	-.9	.0	.1	-.1	.1	-.1	.0	.0	.0	.0	.0	1.1	-.2	1.2	-2.5
27.0	-1.8	-.9	.0	.0	-.2	.1	.0	.0	.0	.0	.0	.0	1.0	-.8	1.3	-3.2
28.0	-2.0	-1.0	.0	.0	-.2	.0	.0	.0	.0	.0	.0	.0	.9	-1.2	1.6	-3.7
29.0	-2.2	-.9	.0	.0	-.2	.0	.0	.0	.0	.0	.0	.0	.9	-1.3	1.7	-4.0
30.0	-2.4	-.7	.0	.0	-.2	.0	.0	.0	.0	.0	.0	.0	.9	-1.5	1.6	-4.0
31.0	-2.5	-.4	.0	.0	-.2	.0	.0	.0	.0	.0	.0	.0	.9	-1.7	1.3	-3.8
32.0	-2.6	-.3	.0	.0	-.2	.0	.0	.0	.0	.0	.0	.0	.9	-1.7	1.1	-3.7
33.0	-2.6	-.2	.0	.0	-.2	.0	.0	.0	.0	.0	.0	.0	.9	-1.7	1.0	-3.6
34.0	-2.7	-.2	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.9	-1.8	.9	-3.6
35.0	-2.7	-.2	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.9	-1.9	.9	-3.6
36.0	-2.9	-.2	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.9	-2.0	.9	-3.7
37.0	-3.0	-.2	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.9	-2.1	.9	-3.8
38.0	-3.0	-.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.8	-2.2	.8	-3.9
39.0	-3.1	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.8	-2.2	.8	-3.9
40.0	-3.1	-.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.8	-2.3	.7	-3.8
41.0	-3.1	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.4	.7	-3.8
42.0	-3.2	-.1	.0	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.7	-2.6	.7	-3.9
43.0	-3.3	-.1	.0	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.7	-2.7	.7	-4.0
44.0	-3.5	-.1	.0	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.7	-2.8	.6	-4.1
45.0	-3.5	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.7	-2.9	.6	-4.2
46.0	-3.6	.1	.0	.0	-.1	.0	-.1	.0	.0	.0	.0	.0	.7	-2.9	.6	-4.2
47.0	-3.6	.1	.0	-.1	-.1	-.1	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
48.0	-3.6	.1	.0	-.1	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
49.0	-3.6	.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3

PROPULSION

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	-3.6	-.3	.0	.0	.0	-.2	.1	.1	.0	.0	.0	.0	.7	-2.9	.7	-4.3
51.0	-3.6	-.3	.0	.0	.0	-.2	.1	.1	.0	.0	.0	.0	.7	-2.9	.7	-4.3
52.0	-3.6	-.4	.0	.0	.0	-.2	.1	.1	.0	.0	.0	.0	.7	-2.9	.7	-4.3
53.0	-3.6	-.4	.0	.0	.0	-.2	.1	.1	.0	.0	.0	.0	.7	-2.9	.7	-4.3
54.0	-3.6	-.4	.0	.0	.0	-.2	.1	.1	.0	.0	.0	.0	.7	-2.9	.8	-4.3
55.0	-3.5	-.5	.0	.0	-.1	-.1	.0	.0	.0	.0	.0	.0	.7	-2.8	.8	-4.3
56.0	-3.5	-.4	.0	.0	-.1	-.1	.0	.0	.0	.0	.0	.0	.7	-2.8	.8	-4.3
57.0	-3.6	-.3	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.7	-2.8	.7	-4.3
58.0	-3.6	-.3	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.7	-2.8	.7	-4.3
59.0	-3.6	-.3	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.8	-2.8	.7	-4.3
60.0	-3.6	-.4	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.9	-2.7	.8	-4.3
61.0	-3.4	-.6	.0	.1	.1	-.1	.0	.0	.0	.0	-.1	.0	.9	-2.5	.9	-4.3
62.0	-3.2	-.8	.0	.1	.1	-.1	.0	.0	.0	.0	-.1	.0	1.0	-2.2	1.1	-4.3
63.0	-3.0	-.9	.0	.1	.1	-.2	.1	.0	.0	.0	-.1	.0	1.2	-1.8	1.2	-4.2
64.0	-2.7	-1.1	.0	.1	.2	-.2	.1	.1	.0	.0	-.1	.0	1.3	-1.5	1.3	-4.1
65.0	-2.4	-1.2	.0	.1	.2	-.2	.1	.1	.0	.0	-.1	.0	1.3	-1.1	1.5	-3.9
66.0	-2.1	-1.3	.0	.1	.2	-.2	.1	.1	.0	.0	-.1	.0	1.3	-.8	1.6	-3.7
67.0	-1.7	-1.4	.0	.1	.2	-.2	.1	.1	.0	.0	-.1	.0	1.3	-.4	1.6	-3.4
68.0	-1.4	-1.4	.0	.1	.2	-.2	.1	.0	.0	.0	-.1	.0	1.3	-.1	1.7	-3.1
69.0	-1.1	-1.4	.0	.1	.1	-.2	.1	.0	.0	.0	-.1	.0	1.3	.3	1.7	-2.7
70.0	-.8	-1.4	.0	.1	.1	-.2	.0	.0	.0	.0	-.1	.0	1.3	.6	1.6	-2.4
71.0	-.5	-1.4	.0	.1	.1	-.2	.0	.0	.0	.0	-.1	.0	1.4	.9	1.6	-2.1
72.0	-.2	-1.4	.0	.1	.1	-.2	.0	.0	.0	.0	-.1	.0	1.5	1.3	1.6	-1.9
73.0	.1	-1.4	.0	.1	.2	-.2	.0	.0	.0	.0	-.1	.0	1.7	1.7	1.7	-1.6
74.0	.4	-1.6	.0	.1	.2	-.2	.0	.0	.0	.0	-.1	.0	1.7	2.2	1.9	-1.5
75.0	.8	-1.7	.0	.1	.2	-.2	.1	.0	.0	.0	-.1	.0	1.8	2.6	2.0	-1.2
76.0	1.1	-1.8	.0	.1	.2	-.2	.1	.0	.0	.0	-.1	.0	2.0	3.1	2.1	-1.0
77.0	1.5	-1.8	.0	.1	.2	-.2	.1	.0	.0	.0	-.1	.0	2.0	3.5	2.2	-.7
78.0	1.9	-2.0	.0	.1	.2	-.2	.1	.0	.0	.0	-.1	.0	1.8	3.7	2.4	-.5
79.0	2.2	-2.0	.0	.1	.1	-.2	.1	-.1	.0	.0	-.1	.0	1.6	3.8	2.5	-.3
80.0	2.3	-1.9	.0	.0	.0	-.2	.2	-.1	.0	.0	-.1	.0	1.6	3.9	2.3	.0
81.0	2.3	-1.6	.0	.0	.1	-.2	.2	-.1	.0	.0	-.1	.0	1.7	4.0	2.1	.2
82.0	2.4	-1.4	.0	.0	.1	-.2	.2	-.1	.0	.0	-.1	.0	1.8	4.1	2.1	.3
83.0	2.4	-1.5	.0	.0	.1	-.2	.2	-.1	.0	.0	-.1	.0	1.9	4.2	2.1	.2
84.0	2.3	-1.5	.0	.0	.1	-.2	.2	-.1	.0	.0	-.1	.0	2.1	4.4	2.2	.1
85.0	2.3	-1.5	.0	.0	.1	-.2	.2	-.2	.0	.0	-.1	.0	2.1	4.4	2.4	.0
86.0	2.3	-1.6	.0	.0	.1	-.2	.2	-.2	.0	.0	-.1	.0	2.1	4.5	2.5	-.2
87.0	2.4	-1.9	.0	.0	.1	-.2	.2	-.2	.0	.0	-.1	.0	2.1	4.5	2.7	-.3
88.0	2.3	-1.8	.0	.0	.1	-.2	.2	-.2	.0	.0	-.1	.0	2.1	4.4	2.7	-.4
89.0	2.3	-1.9	.0	.0	.1	-.2	.2	-.2	.0	.0	-.1	.0	2.2	4.5	2.8	-.4
90.0	2.4	-1.9	.0	.0	.1	-.2	.2	-.2	.0	.0	-.1	.0	2.2	4.5	2.8	-.4
91.0	2.2	-1.8	.0	.1	.2	-.2	.3	-.2	.0	.0	-.1	.0	2.5	4.7	2.4	-.2
92.0	2.5	-2.0	.0	.0	.1	-.2	.2	-.2	.0	.0	-.1	.0	2.2	4.7	3.0	-.5
93.0	2.5	-2.0	.0	.0	.1	-.2	.2	-.2	.0	.0	-.1	.0	2.1	4.6	2.8	-.3
94.0	2.5	-2.1	.0	.0	.1	-.2	.2	-.2	.0	.0	-.1	.0	2.1	4.6	2.8	-.3
95.0	2.6	-1.9	.0	.0	.1	-.2	.2	-.2	.0	.0	-.1	.0	2.0	4.6	2.7	-.2
96.0	2.5	-1.8	.0	.0	.1	-.2	.2	-.2	.0	.0	-.1	.0	2.0	4.6	2.6	-.1
97.0	2.5	-1.7	.0	.0	.1	-.2	.2	-.2	.0	.0	-.1	.0	2.0	4.5	2.5	.0
98.0	2.5	-1.7	.0	.0	.1	-.2	.2	-.2	.0	.0	-.1	.0	2.0	4.5	2.5	.0
99.0	2.5	-1.7	.0	.0	.1	-.2	.2	-.2	.0	.0	-.1	.0	2.0	4.4	2.4	.0

PROPULSION

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	-3.6	.2	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
51.0	-3.6	.2	.0	-.1	-.1	-.1	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
52.0	-3.6	.2	.0	-.1	-.1	-.1	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
53.0	-3.6	.2	.0	-.1	-.2	-.1	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
54.0	-3.6	.2	.0	-.1	-.2	-.1	.0	.0	.0	.0	.0	.0	.7	-2.9	.8	-4.3
55.0	-3.5	.1	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.8	.8	-4.3
56.0	-3.5	.2	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.8	.8	-4.3
57.0	-3.6	.2	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.8	.7	-4.3
58.0	-3.6	.3	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.7	-2.8	.7	-4.3
59.0	-3.6	.5	.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.8	-2.8	.7	-4.3
60.0	-3.6	.5	.0	-.1	-.2	-.1	.0	.0	.0	.0	.0	.0	.9	-2.7	.8	-4.3
61.0	-3.4	.7	.0	-.1	-.3	-.1	.0	.0	-.1	.0	.0	.0	.9	-2.5	.9	-4.3
62.0	-3.2	.9	.0	-.1	-.3	-.1	.0	.0	-.1	.0	.0	.0	1.0	-2.2	1.1	-4.3
63.0	-3.0	1.0	.0	-.1	-.4	-.1	.0	.0	-.1	.0	.0	.0	1.2	-1.8	1.2	-4.2
64.0	-2.7	1.1	.0	-.2	-.4	-.2	.0	.0	-.1	.0	.0	.0	1.3	-1.5	1.3	-4.1
65.0	-2.4	1.1	.0	-.2	-.5	-.2	.0	.0	-.1	.0	.0	.0	1.3	-1.1	1.5	-3.9
66.0	-2.1	1.1	.0	-.2	-.5	-.2	.0	.0	-.1	.0	.0	.0	1.3	-.8	1.6	-3.7
67.0	-1.7	1.2	.0	-.2	-.5	-.2	.0	.0	-.1	.0	.0	.0	1.3	-.4	1.6	-3.4
68.0	-1.4	1.2	.0	-.2	-.5	-.2	.0	.0	-.1	.0	.0	.0	1.3	-.1	1.7	-3.1
69.0	-1.1	1.2	.0	-.2	-.5	-.2	.0	.0	-.1	.0	.0	.0	1.3	.3	1.7	-2.7
70.0	-.8	1.2	.0	-.2	-.5	-.2	-.1	.0	-.1	.0	.0	.0	1.3	.6	1.6	-2.4
71.0	-.5	1.2	.0	-.2	-.5	-.2	-.1	.0	-.1	.0	.0	.0	1.4	.9	1.6	-2.1
72.0	-.2	1.4	.0	-.2	-.5	-.2	-.1	.0	-.1	.0	.0	.0	1.5	1.3	1.6	-1.9
73.0	.1	1.5	.0	-.2	-.6	-.2	-.1	.0	-.1	.0	.0	.0	1.7	1.7	1.7	-1.6
74.0	.4	1.6	.0	-.2	-.6	-.2	-.1	.0	-.1	.0	.0	.0	1.7	2.2	1.9	-1.5
75.0	.8	1.7	.0	-.2	-.6	-.2	-.1	.0	-.1	.0	.0	.0	1.8	2.6	2.0	-1.2
76.0	1.1	1.8	.0	-.2	-.7	-.2	-.2	.0	-.1	.0	.0	.0	2.0	3.1	2.1	-1.0
77.0	1.5	1.9	.0	-.3	-.7	-.3	-.1	.0	-.2	.0	.0	.0	2.0	3.5	2.2	-.7
78.0	1.9	1.6	.0	-.3	-.8	-.3	-.2	.0	-.2	.0	.0	.0	1.8	3.7	2.4	-.5
79.0	2.2	1.4	.0	-.2	-.8	-.3	-.2	.0	-.2	.0	.0	.0	1.6	3.8	2.5	-.3
80.0	2.3	1.3	.0	-.2	-.7	-.2	-.2	.0	-.2	.0	.0	.0	1.6	3.9	2.3	.0
81.0	2.3	1.4	.0	-.2	-.6	-.2	-.3	.0	-.2	.0	.0	.0	1.7	4.0	2.1	.2
82.0	2.4	1.5	.0	-.2	-.7	-.2	-.3	.0	-.2	.0	.0	.0	1.8	4.1	2.1	.3
83.0	2.4	1.6	.0	-.2	-.7	-.2	-.3	.0	-.2	.0	.0	.0	1.9	4.2	2.1	.2
84.0	2.3	1.7	.0	-.3	-.7	-.2	-.3	.0	-.2	.0	.0	.0	2.1	4.4	2.2	.1
85.0	2.3	1.7	.0	-.3	-.8	-.2	-.3	.0	-.2	.0	.0	.0	2.1	4.4	2.4	.0
86.0	2.3	1.6	.0	-.3	-.8	-.2	-.4	.0	-.2	.0	.0	.0	2.1	4.5	2.5	-.2
87.0	2.4	1.6	.0	-.3	-.9	-.2	-.4	.0	-.2	.0	.0	.0	2.1	4.5	2.7	-.3
88.0	2.3	1.5	.0	-.3	-.9	-.2	-.4	.0	-.2	.0	.0	.0	2.1	4.4	2.7	-.4
89.0	2.3	1.7	.0	-.3	-.9	-.2	-.4	.0	-.2	.0	.0	.0	2.2	4.5	2.8	-.4
90.0	2.4	1.7	.0	-.3	-.9	-.2	-.4	.0	-.2	.0	.0	.0	2.2	4.5	2.8	-.4
91.0	2.2	1.9	.0	-.2	-.7	-.1	-.3	.0	-.2	.0	.0	.0	2.5	4.7	2.4	-.2
92.0	2.5	1.6	.0	-.4	-1.1	-.3	-.4	.0	-.2	.0	.0	.0	2.2	4.7	3.0	-.5
93.0	2.5	1.6	.0	-.3	-.9	-.2	-.4	.0	-.2	.0	.0	.0	2.1	4.6	2.8	-.3
94.0	2.5	1.5	.0	-.3	-.8	-.2	-.4	.0	-.2	.0	.0	.0	2.1	4.6	2.8	-.3
95.0	2.6	1.5	.0	-.3	-.8	-.2	-.4	.0	-.2	.0	.0	.0	2.0	4.6	2.7	-.2
96.0	2.5	1.5	.0	-.3	-.8	-.2	-.4	.0	-.2	.0	.0	.0	2.0	4.6	2.6	-.1
97.0	2.5	1.5	.0	-.3	-.7	-.2	-.4	.0	-.2	.0	.0	.0	2.0	4.5	2.5	.0
98.0	2.5	1.4	.0	-.3	-.7	-.2	-.4	.0	-.2	.0	.0	.0	2.0	4.5	2.5	.0
99.0	2.5	1.4	.0	-.3	-.7	-.2	-.4	.0	-.2	.0	.0	.0	2.0	4.4	2.4	.0

PROPULSION

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	2.4	-1.6	.0	.0	.0	-.2	.2	-.2	.0	.0	-.1	.0	1.9	4.4	2.4	.0
101.0	2.4	-1.6	.0	.0	.0	-.2	.2	-.1	.0	.0	-.1	.0	1.9	4.3	2.4	.1
102.0	2.4	-1.6	.0	.0	.0	-.2	.2	-.1	.0	.0	-.1	.0	1.9	4.3	2.3	.1
103.0	2.4	-1.5	.0	.0	.1	-.2	.2	-.1	.0	.0	-.1	.0	1.9	4.3	2.3	.1
104.0	2.4	-1.5	.0	.0	.1	-.2	.2	-.1	.0	.0	-.2	.0	1.9	4.3	2.3	.1
105.0	2.3	-1.5	.0	.0	.1	-.2	.2	-.1	.0	.0	-.2	.0	1.9	4.2	2.3	.0
106.0	2.3	-1.5	.0	.0	.1	-.2	.2	-.1	.0	.0	-.2	.0	1.9	4.2	2.3	.1
107.0	2.3	-1.5	.0	.0	.1	-.1	.2	-.1	.0	.0	-.2	.0	1.8	4.2	2.3	.1
108.0	2.4	-1.5	.0	.1	.1	-.1	.2	-.1	.0	.0	-.2	.0	1.8	4.2	2.3	.1
109.0	2.4	-1.5	.0	.1	.1	-.1	.2	-.1	.0	.0	-.2	.0	1.8	4.2	2.3	.1
110.0	2.3	-1.5	.0	.1	.1	-.1	.2	-.1	.0	.0	-.2	.0	1.9	4.2	2.2	.1
111.0	2.5	-1.6	-.1	.1	.2	-.1	.2	-.1	.0	.0	-.2	.0	1.7	4.2	2.3	.2
112.0	2.6	-1.7	-.1	.1	.2	-.1	.2	-.1	.0	.0	-.3	.0	1.5	4.2	2.4	.3
113.0	2.7	-1.8	.0	.1	.3	-.1	.1	-.2	.0	.0	-.3	.0	1.5	4.2	2.4	.3
114.0	2.7	-1.6	.1	.2	.5	-.1	.1	-.2	.1	.0	-.4	.0	1.6	4.4	2.2	.5
115.0	2.8	-1.4	.2	.4	.7	-.1	.0	-.2	.1	.0	-.5	.0	1.7	4.5	2.1	.7
116.0	3.0	-1.5	.4	.4	.7	.0	.0	-.2	.2	.0	-.6	.0	1.6	4.6	2.3	.8
117.0	3.1	-1.5	.5	.5	.9	.0	.0	-.2	.2	.0	-.6	.0	1.7	4.8	2.4	.7
118.0	3.1	-1.2	.5	.6	1.0	.0	.0	-.2	.2	.0	-.7	.0	1.8	4.9	2.3	.8
119.0	3.0	-.9	.4	.6	1.0	.0	-.1	-.2	.2	.0	-.7	.0	1.9	4.9	2.2	.8
120.0	2.8	-.6	.3	.6	1.0	.0	-.1	-.2	.3	.0	-.8	.0	1.9	4.7	2.3	.5
121.0	2.6	-.5	.3	.6	1.0	.0	-.1	-.2	.2	.0	-.8	.0	1.9	4.5	2.3	.3
122.0	2.4	-.3	.2	.6	1.0	.0	-.1	-.2	.2	.0	-.9	.0	1.9	4.2	2.4	-.1
123.0	2.1	-.2	.2	.6	1.0	.0	.0	-.1	.2	.0	-.9	.0	1.9	4.0	2.4	-.3
124.0	1.9	-.1	.1	.6	1.0	.0	-.1	-.2	.2	.0	-.9	.0	1.9	3.7	2.5	-.6
125.0	1.6	-.1	.1	.6	1.0	.0	-.1	-.2	.2	.0	-.9	.0	1.9	3.4	2.5	-.9
126.0	1.3	.0	.1	.6	1.0	.0	.0	-.2	.2	.0	-.9	.0	1.9	3.2	2.5	-1.2
127.0	1.1	.0	.1	.6	1.0	.0	-.1	-.2	.2	.0	-.9	.0	1.8	2.9	2.5	-1.4
128.0	.8	.0	.1	.6	1.0	.0	-.1	-.2	.2	.0	-.9	.0	2.5	3.3	2.4	-1.6
129.0	.5	.0	.1	.6	1.0	.0	.0	-.2	.2	.0	-.9	.0	4.7	5.2	2.4	-1.9
130.0	.3	-.1	.1	.6	1.0	.0	.0	-.2	.2	.0	-.9	.0	7.0	7.2	2.4	-2.1
140.0	7.0	-.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.6	.7	6.3
150.0	6.4	-1.9	-.1	.0	.1	-.4	1.0	-.4	.2	-.1	.8	-.1	3.5	9.9	4.3	2.1
160.0	4.6	-1.9	-.1	.0	.1	-.4	.9	-.4	.2	-.1	.7	-.1	3.1	7.7	4.1	.5
170.0	2.8	-1.8	-.1	.0	.1	-.3	.8	-.3	.2	-.1	.7	-.1	2.9	5.7	3.8	-.9
180.0	1.3	-1.7	-.1	.0	.1	-.3	.7	-.3	.2	-.1	.6	-.1	2.7	3.9	3.5	-2.2
190.0	.0	-1.6	-.1	.0	.1	-.3	.7	-.3	.2	-.1	.6	-.1	2.4	2.4	3.2	-3.3
200.0	-1.2	-1.4	-.1	.0	.1	-.3	.6	-.3	.2	-.1	.5	-.1	2.2	1.1	3.0	-4.2
210.0	-2.1	-1.3	-.1	.1	.1	-.3	.6	-.2	.2	-.1	.5	-.1	2.0	-.1	2.8	-4.9
220.0	-2.9	-1.2	-.1	.1	.1	-.3	.5	-.2	.2	-.1	.4	-.1	1.9	-1.0	2.6	-5.5
230.0	-3.5	-1.2	-.1	.1	.1	-.2	.5	-.2	.2	-.1	.4	-.1	1.7	-1.8	2.4	-5.9
240.0	-4.0	-1.0	-.1	.1	.1	-.2	.4	-.2	.2	-.1	.4	-.1	1.6	-2.5	2.2	-6.2
250.0	-4.4	-1.0	-.1	.1	.1	-.2	.4	-.2	.2	-.1	.3	.0	1.4	-3.0	2.0	-6.3
260.0	-4.6	-.9	-.1	.1	.1	-.2	.3	-.2	.2	-.1	.3	.0	1.3	-3.3	1.8	-6.4
270.0	-4.7	-.8	-.1	.1	.1	-.2	.3	-.1	.2	-.1	.3	.0	1.1	-3.6	1.6	-6.3
280.0	-4.7	-.7	-.1	.1	.1	-.2	.3	-.1	.2	-.1	.3	.0	1.0	-3.7	1.5	-6.2
290.0	-4.7	-.6	.0	.1	.0	-.2	.2	-.1	.2	-.1	.2	.0	.9	-3.8	1.3	-6.0
300.0	-4.6	-.5	.0	.1	.0	-.2	.2	-.1	.2	-.1	.2	.0	.8	-3.7	1.2	-5.7
310.0	-4.3	-.5	.0	.1	.0	-.2	.2	-.1	.2	-.1	.2	.0	.7	-3.6	1.0	-5.3
320.0	-4.0	-.4	.0	.1	.0	-.1	.1	-.1	.2	-.1	.1	.0	.6	-3.4	.9	-4.8

PROPULSION

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	2.4	1.4	.0	-.3	-.7	-.2	-.4	.0	-.2	.0	.0	.0	1.9	4.4	2.4	.0
101.0	2.4	1.4	.0	-.2	-.7	-.2	-.3	.0	-.2	.0	.0	.0	1.9	4.3	2.4	.1
102.0	2.4	1.4	.0	-.2	-.7	-.2	-.3	.0	-.2	.0	.0	.0	1.9	4.3	2.3	.1
103.0	2.4	1.4	.0	-.2	-.7	-.2	-.3	.0	-.2	.0	.0	.0	1.9	4.3	2.3	.1
104.0	2.4	1.4	.0	-.3	-.7	-.2	-.3	.0	-.2	.0	.1	.0	1.9	4.3	2.3	.1
105.0	2.3	1.4	.0	-.2	-.7	-.2	-.3	.0	-.2	.0	.1	.0	1.9	4.2	2.3	.0
106.0	2.3	1.4	.0	-.3	-.7	-.2	-.3	.0	-.2	.0	.1	.0	1.9	4.2	2.3	.1
107.0	2.3	1.3	.0	-.3	-.7	-.2	-.3	.0	-.2	.0	.1	.0	1.8	4.2	2.3	.1
108.0	2.4	1.3	.0	-.3	-.7	-.2	-.3	.0	-.2	.0	.1	.0	1.8	4.2	2.3	.1
109.0	2.4	1.3	.0	-.3	-.7	-.2	-.3	.0	-.2	.0	.1	.0	1.8	4.2	2.3	.1
110.0	2.3	1.3	.0	-.3	-.7	-.2	-.3	.0	-.2	.0	.1	.0	1.9	4.2	2.2	.1
111.0	2.5	1.2	.0	-.3	-.7	-.3	-.3	.0	-.2	.0	.1	.0	1.7	4.2	2.3	.2
112.0	2.6	1.0	-.1	-.3	-.8	-.3	-.3	.0	-.2	.0	.2	.0	1.5	4.2	2.4	.3
113.0	2.7	.9	.0	-.3	-.8	-.3	-.2	.0	-.2	.0	.3	.0	1.5	4.2	2.4	.3
114.0	2.7	1.0	.1	-.3	-.8	-.3	-.2	.0	-.2	.0	.3	.0	1.6	4.4	2.2	.5
115.0	2.8	.9	.3	-.4	-.9	-.4	-.1	.0	-.2	.0	.5	.0	1.7	4.5	2.1	.7
116.0	3.0	.5	.4	-.5	-1.0	-.5	-.1	.0	-.2	.0	.5	.0	1.6	4.6	2.3	.8
117.0	3.1	.2	.5	-.5	-1.2	-.5	-.1	.0	-.2	.0	.6	.0	1.7	4.8	2.4	.7
118.0	3.1	-.1	.5	-.5	-1.3	-.5	-.1	.0	-.2	.0	.7	.0	1.8	4.9	2.3	.8
119.0	3.0	-.2	.4	-.6	-1.3	-.6	.0	.0	-.3	.0	.7	.0	1.9	4.9	2.2	.8
120.0	2.8	-.4	.3	-.6	-1.4	-.6	-.1	.0	-.3	.0	.8	.0	1.9	4.7	2.3	.5
121.0	2.6	-.4	.2	-.6	-1.5	-.6	-.1	.0	-.3	.0	.8	.0	1.9	4.5	2.3	.3
122.0	2.4	-.5	.1	-.6	-1.6	-.6	-.1	.0	-.3	.0	.9	.0	1.9	4.2	2.4	-.1
123.0	2.1	-.5	.1	-.6	-1.6	-.6	-.1	.0	-.3	.0	.9	.0	1.9	4.0	2.4	-.3
124.0	1.9	-.5	.1	-.6	-1.6	-.6	-.1	.0	-.3	.0	.9	.0	1.9	3.7	2.5	-.6
125.0	1.6	-.5	.1	-.6	-1.6	-.6	-.1	.0	-.3	.0	.9	.0	1.9	3.4	2.5	-.9
126.0	1.3	-.5	.1	-.6	-1.6	-.6	-.2	.0	-.3	.0	.9	.0	1.9	3.2	2.5	-1.2
127.0	1.1	-.5	.1	-.6	-1.6	-.6	-.2	.0	-.3	.0	.9	.0	1.8	2.9	2.5	-1.4
128.0	.8	1.7	.1	-.6	-1.6	-.6	-.1	.0	-.3	.0	.9	.0	2.5	3.3	2.4	-1.6
129.0	.5	4.3	.1	-.6	-1.6	-.6	-.1	.0	-.3	.0	.9	.0	4.7	5.2	2.4	-1.9
130.0	.3	6.7	.1	-.6	-1.6	-.6	-.2	.0	-.3	.0	.9	.0	7.0	7.2	2.4	-2.1
140.0	7.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.6	.7	6.3
150.0	6.4	1.8	-.1	-.5	-1.2	-.4	-1.1	.0	-.7	.0	-1.0	.0	3.5	9.9	4.3	2.1
160.0	4.6	1.6	-.1	-.4	-1.1	-.4	-1.0	.0	-.6	.0	-.9	.0	3.1	7.7	4.1	.5
170.0	2.8	1.5	-.1	-.4	-1.1	-.4	-1.0	.0	-.6	.0	-.8	.0	2.9	5.7	3.8	-.9
180.0	1.3	1.3	-.1	-.4	-1.0	-.4	-.9	.0	-.6	.0	-.8	.0	2.7	3.9	3.5	-2.2
190.0	.0	1.2	-.1	-.4	-1.0	-.3	-.8	.0	-.5	.0	-.7	.0	2.4	2.4	3.2	-3.3
200.0	-1.2	1.1	-.1	-.4	-.9	-.3	-.7	.0	-.5	.0	-.7	.0	2.2	1.1	3.0	-4.2
210.0	-2.1	1.0	-.1	-.3	-.9	-.3	-.7	.0	-.5	.0	-.6	.0	2.0	-.1	2.8	-4.9
220.0	-2.9	.9	-.1	-.3	-.8	-.3	-.6	.0	-.5	.0	-.6	.0	1.9	-1.0	2.6	-5.5
230.0	-3.5	.8	-.1	-.3	-.8	-.3	-.6	.0	-.5	.0	-.5	.0	1.7	-1.8	2.4	-5.9
240.0	-4.0	.8	-.1	-.3	-.7	-.3	-.5	.0	-.4	.0	-.5	.0	1.6	-2.5	2.2	-6.2
250.0	-4.4	.7	.0	-.3	-.7	-.2	-.5	.0	-.4	.0	-.4	.0	1.4	-3.0	2.0	-6.3
260.0	-4.6	.6	.0	-.2	-.6	-.2	-.4	.0	-.4	.0	-.4	.0	1.3	-3.3	1.8	-6.4
270.0	-4.7	.5	.0	-.2	-.6	-.2	-.4	.0	-.4	.0	-.3	.0	1.1	-3.6	1.6	-6.3
280.0	-4.7	.4	.0	-.2	-.5	-.2	-.3	.0	-.4	.0	-.3	.0	1.0	-3.7	1.5	-6.2
290.0	-4.7	.4	.0	-.2	-.5	-.2	-.3	.0	-.3	.0	-.3	.0	.9	-3.8	1.3	-6.0
300.0	-4.5	.3	.0	-.2	-.4	-.2	-.3	.0	-.3	.0	-.2	.0	.8	-3.7	1.2	-5.7
310.0	-4.3	.2	.0	-.1	-.4	-.1	-.2	.0	-.3	.0	-.2	.0	.7	-3.6	1.0	-5.3
320.0	-4.0	.2	.0	-.1	-.3	-.1	-.2	.0	-.3	.0	-.2	.0	.6	-3.4	.9	-4.8

PROPULSION

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-3.6	-.3	.0	.1	.0	-.1	.1	-.1	.2	-.1	.1	.0	.5	-3.1	.7	-4.3
340.0	-3.2	-.2	.0	.0	.0	-.1	.1	.0	.2	-.1	.1	.0	.4	-2.8	.6	-3.8
350.0	-2.7	-.1	.0	.0	.0	-.1	.0	.0	.2	-.1	.1	.0	.3	-2.4	.5	-3.2
360.0	-2.2	-.1	.0	.0	.0	-.1	.0	.0	.2	.0	.0	.0	.3	-1.9	.4	-2.6
370.0	-1.7	.0	.0	.0	-.1	-.1	.0	.0	.2	.0	.0	.0	.3	-1.4	.4	-2.1
380.0	-1.2	.1	.0	.0	-.1	-.1	.0	.0	.2	.0	.0	.0	.4	-.8	.4	-1.6
390.0	-.6	.2	.0	.0	-.1	-.1	-.1	.0	.2	.0	.0	.0	.4	-.2	.5	-1.1
400.0	.0	.3	.0	.0	-.1	-.1	-.1	.0	.2	.0	-.1	.0	.7	.7	.6	-.6
410.0	.5	.4	.0	.0	-.1	-.1	-.1	.0	.2	.0	-.1	.0	1.3	1.8	.7	-.1
420.0	1.0	.5	.0	.0	-.1	.0	-.1	.0	.2	.0	-.1	.0	1.4	2.4	.8	.3
430.0	1.5	.6	.0	.0	-.1	.0	-.2	.1	.1	.0	-.1	.0	1.3	2.8	.9	.6
440.0	1.9	.7	.1	.0	-.2	-.1	-.2	.0	.1	.0	-.2	.6	1.3	3.2	1.0	.9
450.0	2.1	.8	.1	.0	-.2	.0	-.2	.1	.1	.0	-.2	.8	1.4	3.6	1.1	1.0
460.0	2.2	1.0	.1	.0	-.2	.0	-.3	.1	.1	.0	-.2	.4	1.6	3.9	1.4	.8
470.0	2.2	1.1	.2	.0	-.2	.0	-.3	.1	.1	.0	-.2	-.1	1.7	3.9	1.9	.3
480.0	2.5	1.0	.0	.0	-.2	.0	-.3	.1	.1	.0	-.2	-.7	1.6	4.1	2.5	.0

PROPULSION

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-3.6	.1	.0	-.1	-.3	-.1	-.1	.0	-.3	.0	-.1	.0	.5	-3.1	.7	-4.3
340.0	-3.2	.0	.1	-.1	-.2	-.1	-.1	.0	-.3	.0	-.1	.0	.4	-2.8	.6	-3.8
350.0	-2.7	.0	.1	-.1	-.2	-.1	-.1	.0	-.2	.0	-.1	.0	.3	-2.4	.5	-3.2
360.0	-2.2	-.1	.1	.0	-.1	.0	.0	.0	-.2	.0	.0	.0	.3	-1.9	.4	-2.6
370.0	-1.7	-.2	.1	.0	-.1	.0	.0	.0	-.2	.0	.0	.0	.3	-1.4	.4	-2.1
380.0	-1.2	-.3	.1	.0	.0	.0	.0	.0	-.2	.0	.0	.0	.4	-.8	.4	-1.6
390.0	-.6	-.3	.1	.0	.0	.0	.1	.0	-.2	.0	.0	.0	.4	-.2	.5	-1.1
400.0	.0	-.4	.5	.0	.1	.0	.1	.0	-.1	.0	.1	.0	.7	.7	.6	-.6
410.0	.5	-.5	1.1	.0	.1	.0	.1	.0	-.1	.0	.1	.0	1.3	1.8	.7	-.1
420.0	1.0	-.6	1.1	.1	.2	.1	.2	.0	-.1	.0	.1	.0	1.4	2.4	.8	.3
430.0	1.5	-.6	.9	.1	.2	.1	.2	.0	-.1	.0	.2	.0	1.3	2.8	.9	.6
440.0	1.9	-.8	.5	.1	.3	.1	.2	.0	.0	.0	.2	.0	1.3	3.2	1.0	.9
450.0	2.1	-.9	-.1	.1	.3	.1	.3	.0	.0	.0	.2	.0	1.4	3.6	1.1	1.0
460.0	2.2	-1.0	-.5	.1	.4	.1	.3	.0	.1	.0	.2	.0	1.6	3.9	1.4	.8
470.0	2.2	-1.1	-1.3	.2	.4	.1	.3	.0	.1	.0	.3	.0	1.7	3.9	1.9	.3
480.0	2.5	-.8	-2.0	.2	.4	.2	.4	.0	.0	.0	.3	.0	1.6	4.1	2.5	.0

AERO/ENVIRONMENT

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	-.3	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.4	-.7
2.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.5	4.9	.4	4.0
3.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.7	6.2	.6	5.0
4.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	6.7	.6	5.3
5.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.8	6.9	.7	5.5
6.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.8	7.0	.7	5.5
7.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.8	7.0	.7	5.5
8.0	6.6	.0	-.1	.0	.0	.0	.0	.0	.0	.8	7.3	.5	6.0
9.0	7.7	.0	-.1	.0	.0	.0	.0	.0	.0	.9	8.6	.5	7.2
10.0	9.0	.0	-.1	.0	.0	.0	.0	.0	.0	.7	9.7	.6	8.4
11.0	9.6	.0	-.1	.0	.0	.0	.0	.0	.0	.8	10.3	.8	8.8
12.0	9.7	.0	-.1	.0	.0	.0	.0	.0	.0	.8	10.5	.9	8.8
13.0	9.5	.0	-.1	.0	.0	.0	.0	.0	.0	.8	10.3	.9	8.6
14.0	9.2	.0	-.2	.0	.0	.0	.0	.0	.0	.8	10.0	1.0	8.2
15.0	8.7	.0	-.2	.0	.0	.0	.0	.0	.0	.8	9.5	.9	7.8
16.0	8.3	.0	-.2	.0	.0	.0	.0	.0	.0	.7	9.0	.9	7.3
17.0	7.6	.0	-.2	.0	-.1	.0	.0	.0	.0	.7	8.3	1.2	6.4
18.0	6.2	.0	-.2	.0	-.1	.0	.0	.0	.0	.8	7.0	1.4	4.8
19.0	4.7	.0	-.3	.0	-.1	.0	.0	.0	.0	.8	5.4	1.2	3.5
20.0	3.5	.0	-.4	.0	.0	.0	.0	.0	.0	.7	4.2	1.3	2.2
21.0	2.6	.0	-.4	.0	.0	.0	.0	.0	.0	.8	3.4	1.6	1.0
22.0	1.9	.1	-.5	.0	.0	.0	.0	.1	.1	1.0	2.9	1.6	.3
23.0	1.2	.1	-.5	.0	.0	.0	.0	.1	.1	1.2	2.4	1.5	-.3
24.0	.2	.1	-.5	.0	.0	.0	.0	.1	.1	1.4	1.6	1.1	-.9
25.0	-.6	.1	-.6	.0	.0	.0	.0	.1	.1	1.2	.6	1.1	-1.7
26.0	-1.3	.1	-.6	.0	.0	.0	.0	.1	.0	1.1	-.2	1.2	-2.5
27.0	-1.8	.0	-.6	.0	.0	.0	.0	.1	.0	1.0	-.8	1.3	-3.2
28.0	-2.0	.0	-.6	.0	.1	.0	.0	.0	.0	.9	-1.2	1.6	-3.7
29.0	-2.2	.0	-.6	.0	.1	.1	.0	.0	.0	.9	-1.3	1.7	-4.0
30.0	-2.4	.0	-.6	.0	.1	.1	.0	.0	.0	.9	-1.5	1.6	-4.0
31.0	-2.5	.0	-.6	.0	.1	.1	.0	.0	.0	.9	-1.7	1.3	-3.8
32.0	-2.6	.0	-.6	.0	.2	.1	.0	.0	.0	.9	-1.7	1.1	-3.7
33.0	-2.6	.0	-.6	.0	.2	.1	.0	.0	.0	.9	-1.7	1.0	-3.6
34.0	-2.7	.0	-.6	.0	.2	.1	.0	.0	.0	.9	-1.8	.9	-3.6
35.0	-2.7	.0	-.6	.0	.2	.1	.0	.0	.0	.9	-1.9	.9	-3.6
36.0	-2.9	.0	-.5	-.1	.2	.1	.0	.0	.0	.9	-2.0	.9	-3.7
37.0	-3.0	.0	-.6	-.1	.2	.1	.0	.0	.0	.9	-2.1	.9	-3.8
38.0	-3.0	.0	-.6	-.1	.2	.1	.0	.0	.0	.8	-2.2	.8	-3.9
39.0	-3.1	.0	-.6	-.1	.2	.1	.0	.0	.0	.8	-2.2	.8	-3.9
40.0	-3.1	.0	-.5	-.1	.2	.1	.0	.0	.0	.8	-2.3	.7	-3.8
41.0	-3.1	.0	-.5	-.1	.2	.1	.0	.0	.0	.7	-2.4	.7	-3.8
42.0	-3.2	.0	-.5	-.1	.1	.1	.0	.0	.0	.7	-2.6	.7	-3.9
43.0	-3.3	.0	-.5	-.1	.1	.1	.0	.0	.0	.7	-2.7	.7	-4.0
44.0	-3.5	.0	-.5	-.1	.1	.1	.0	.0	.0	.7	-2.8	.6	-4.1
45.0	-3.5	.0	-.5	.0	.1	.1	.0	.0	.0	.7	-2.9	.6	-4.2
46.0	-3.6	.0	-.5	.0	.1	.1	.0	.0	.0	.7	-2.9	.6	-4.2
47.0	-3.6	-.1	-.5	.0	.1	.1	.0	.0	.0	.7	-2.9	.7	-4.3
48.0	-3.6	-.1	-.5	.0	.1	.1	.0	.0	.0	.7	-2.9	.7	-4.3
49.0	-3.6	-.1	-.5	-.1	.1	.1	.0	-.1	.0	.7	-2.9	.7	-4.3

AERO/ENVIRONMENT

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	-.3	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.4	-.7
2.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.5	4.9	.4	4.0
3.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.7	6.2	.6	5.0
4.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	6.7	.6	5.3
5.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.8	6.9	.7	5.5
6.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.8	7.0	.7	5.5
7.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.8	7.0	.7	5.5
8.0	6.6	.0	.1	.0	.0	.0	.0	.0	.2	.8	7.3	.5	6.0
9.0	7.7	.0	.1	.0	.0	.0	.0	.0	.3	.9	8.6	.5	7.2
10.0	9.0	.0	.1	.0	.0	.0	.0	.0	.2	.7	9.7	.6	8.4
11.0	9.6	.0	.1	.0	.0	.0	.0	.0	.1	.8	10.3	.8	8.8
12.0	9.7	.0	.1	.0	.0	.0	.0	.0	.0	.8	10.5	.9	8.8
13.0	9.5	.0	.1	.0	.0	.0	.0	.0	-.1	.8	10.3	.9	8.6
14.0	9.2	.0	.2	.0	.0	.0	.0	.0	-.1	.8	10.0	1.0	8.2
15.0	8.7	.0	.2	.0	.0	.0	.0	.0	-.1	.8	9.5	.9	7.8
16.0	8.3	.0	.2	.0	.0	.0	.0	.0	-.1	.7	9.0	.9	7.3
17.0	7.6	.0	.2	.0	.1	.0	.0	.0	-.2	.7	8.3	1.2	6.4
18.0	6.2	.0	.2	.0	.1	.0	.0	.0	-.3	.8	7.0	1.4	4.8
19.0	4.7	.0	.2	.0	.1	.0	.0	.0	-.3	.8	5.4	1.2	3.5
20.0	3.5	.0	.4	.0	.0	.0	.0	.0	-.3	.7	4.2	1.3	2.2
21.0	2.6	.0	.5	.0	.1	.0	.0	.0	-.2	.8	3.4	1.6	1.0
22.0	1.9	.0	.5	.0	.1	.1	.0	.0	-.2	1.0	2.9	1.6	.3
23.0	1.2	.0	.6	.0	.1	.1	.0	.0	-.1	1.2	2.4	1.5	-.3
24.0	.2	.0	.6	.0	.0	.0	.0	.0	-.1	1.4	1.6	1.1	-.9
25.0	-.6	.0	.6	.0	.0	.0	.0	.0	-.1	1.2	.6	1.1	-1.7
26.0	-1.3	.0	.7	.0	.0	.0	.0	.0	-.1	1.1	-.2	1.2	-2.5
27.0	-1.8	.0	.7	.0	.0	.0	.0	.0	-.1	1.0	-.8	1.3	-3.2
28.0	-2.0	.0	.7	.0	.0	.0	.0	.0	-.1	.9	-1.2	1.6	-3.7
29.0	-2.2	.0	.7	.0	-.1	.0	.0	.0	-.1	.9	-1.3	1.7	-4.0
30.0	-2.4	.0	.7	.0	-.1	-.1	.0	.0	-.1	.9	-1.5	1.6	-4.0
31.0	-2.5	.0	.7	.0	-.1	-.1	.0	.0	.0	.9	-1.7	1.3	-3.8
32.0	-2.6	.0	.7	.0	-.1	-.1	.0	.0	.0	.9	-1.7	1.1	-3.7
33.0	-2.6	.0	.7	.0	-.2	-.1	.0	.0	.0	.9	-1.7	1.0	-3.6
34.0	-2.7	.0	.7	.1	-.2	-.1	.0	.0	.0	.9	-1.8	.9	-3.6
35.0	-2.7	.0	.7	.1	-.2	-.1	.0	.0	-.1	.9	-1.9	.9	-3.6
36.0	-2.9	.0	.7	.1	-.2	-.1	.0	.0	-.1	.9	-2.0	.9	-3.7
37.0	-3.0	.0	.7	.1	-.2	-.1	.0	.0	-.1	.9	-2.1	.9	-3.8
38.0	-3.0	.0	.7	.1	-.2	-.1	.0	.0	-.1	.8	-2.2	.8	-3.9
39.0	-3.1	.0	.6	.1	-.2	-.1	.0	.0	-.1	.8	-2.2	.8	-3.9
40.0	-3.1	.0	.6	.1	-.1	-.1	.0	.0	-.1	.8	-2.3	.7	-3.8
41.0	-3.1	.0	.6	.1	-.1	-.1	.0	.0	-.1	.7	-2.4	.7	-3.8
42.0	-3.2	.0	.6	.1	-.1	-.1	.0	.0	-.1	.7	-2.6	.7	-3.9
43.0	-3.3	.0	.6	.1	-.1	-.1	.0	-.1	-.2	.7	-2.7	.7	-4.0
44.0	-3.5	.0	.6	.1	-.1	-.1	.0	.0	-.2	.7	-2.8	.6	-4.1
45.0	-3.5	.0	.6	.0	-.1	-.1	.0	.0	-.2	.7	-2.9	.6	-4.2
46.0	-3.6	.0	.6	.0	-.1	-.1	.0	.0	-.2	.7	-2.9	.6	-4.2
47.0	-3.6	.1	.6	.0	-.1	-.1	.0	.0	-.1	.7	-2.9	.7	-4.3
48.0	-3.6	.1	.6	.0	-.1	-.1	.0	.0	.0	.7	-2.9	.7	-4.3
49.0	-3.6	.0	.6	.1	-.1	-.1	.0	.1	.0	.7	-2.9	.7	-4.3

AERO/ENVIRONMENT

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	-3.6	-.1	-.5	-.1	.1	.1	.0	-.1	.1	.7	-2.9	.7	-4.3
51.0	-3.6	-.1	-.5	-.1	.1	.1	.0	-.1	.1	.7	-2.9	.7	-4.3
52.0	-3.6	-.1	-.5	-.1	.1	.1	.0	-.1	.1	.7	-2.9	.7	-4.3
53.0	-3.6	-.1	-.5	.0	.1	.1	.0	-.1	.1	.7	-2.9	.7	-4.3
54.0	-3.6	-.1	-.5	-.1	.1	.1	.0	-.1	.0	.7	-2.9	.8	-4.3
55.0	-3.5	-.1	-.6	-.1	.1	.1	.0	.0	.0	.7	-2.8	.8	-4.3
56.0	-3.5	-.1	-.6	-.1	.1	.1	.0	.0	.0	.7	-2.8	.8	-4.3
57.0	-3.6	-.1	-.6	-.1	.1	.1	.0	.0	-.1	.7	-2.8	.7	-4.3
58.0	-3.6	-.1	-.5	-.1	.2	.1	.0	.0	.0	.7	-2.8	.7	-4.3
59.0	-3.6	.0	-.5	-.1	.2	.1	.0	.0	.0	.8	-2.8	.7	-4.3
60.0	-3.6	-.1	-.5	-.1	.2	.1	.0	.0	-.1	.9	-2.7	.8	-4.3
61.0	-3.4	-.2	-.5	-.1	.1	.1	.0	-.1	-.1	.9	-2.5	.9	-4.3
62.0	-3.2	-.2	-.6	-.1	.1	.1	.0	-.1	-.1	1.0	-2.2	1.1	-4.3
63.0	-3.0	-.2	-.6	-.1	.1	.0	.0	-.1	.0	1.2	-1.8	1.2	-4.2
64.0	-2.7	-.2	-.6	-.1	.1	.0	.0	-.1	.0	1.3	-1.5	1.3	-4.1
65.0	-2.4	-.2	-.6	.0	.1	.0	.0	-.1	.0	1.3	-1.1	1.5	-3.9
66.0	-2.1	-.2	-.6	.0	.1	.0	.0	-.1	.0	1.3	-.8	1.6	-3.7
67.0	-1.7	-.2	-.6	.0	.1	.0	.0	-.1	.0	1.3	-.4	1.6	-3.4
68.0	-1.4	-.3	-.5	.0	.1	.0	.0	-.1	.0	1.3	-.1	1.7	-3.1
69.0	-1.1	-.3	-.5	-.1	.1	.0	.0	-.1	.0	1.3	.3	1.7	-2.7
70.0	-.8	-.2	-.5	-.1	.0	.0	.0	-.1	.0	1.3	.6	1.6	-2.4
71.0	-.5	-.2	-.5	-.1	.0	.0	.0	-.1	.0	1.4	.9	1.6	-2.1
72.0	-.2	-.3	-.5	-.1	.0	.0	.0	-.1	-.1	1.5	1.3	1.6	-1.9
73.0	.1	-.3	-.6	-.1	.0	.0	.0	-.2	-.1	1.7	1.7	1.7	-1.6
74.0	.4	-.3	-.6	-.1	.0	-.1	.0	-.2	-.1	1.7	2.2	1.9	-1.5
75.0	.8	-.3	-.6	-.1	-.1	-.1	.0	-.2	-.1	1.8	2.6	2.0	-1.2
76.0	1.1	-.3	-.6	-.1	-.1	-.1	.0	-.2	-.1	2.0	3.1	2.1	-1.0
77.0	1.5	-.4	-.5	-.1	-.1	-.1	.0	-.2	-.1	2.0	3.5	2.2	-.7
78.0	1.9	-.4	-.5	-.1	-.2	-.1	.0	-.2	-.1	1.8	3.7	2.4	-.5
79.0	2.2	-.4	-.5	-.1	-.2	-.2	.0	-.2	-.1	1.6	3.8	2.5	-.3
80.0	2.3	-.3	-.5	-.1	-.3	-.2	.0	-.1	-.2	1.6	3.9	2.3	.0
81.0	2.3	-.3	-.5	-.1	-.3	-.2	.0	-.1	-.2	1.7	4.0	2.1	.2
82.0	2.4	-.3	-.5	-.1	-.4	-.2	-.1	-.2	-.2	1.8	4.1	2.1	.3
83.0	2.4	-.3	-.5	-.1	-.4	-.3	-.1	-.2	-.2	1.9	4.2	2.1	.2
84.0	2.3	-.3	-.5	-.2	-.5	-.3	-.1	-.2	-.2	2.1	4.4	2.2	.1
85.0	2.3	-.3	-.5	-.2	-.5	-.3	-.1	-.2	-.2	2.1	4.4	2.4	.0
86.0	2.3	-.4	-.5	-.2	-.6	-.3	-.1	-.2	-.2	2.1	4.5	2.5	-.2
87.0	2.4	-.4	-.5	-.2	-.6	-.3	-.1	-.2	-.2	2.1	4.5	2.7	-.3
88.0	2.3	-.4	-.5	-.2	-.6	-.3	-.1	-.2	-.2	2.1	4.4	2.7	-.4
89.0	2.3	-.4	-.5	-.2	-.6	-.3	-.1	-.2	-.2	2.2	4.5	2.8	-.4
90.0	2.4	-.4	-.5	-.2	-.6	-.3	-.1	-.2	-.2	2.2	4.5	2.8	-.4
91.0	2.2	-.2	-.4	-.2	-.5	-.3	-.1	-.2	-.2	2.5	4.7	2.4	-.2
92.0	2.5	-.5	-.5	-.3	-.6	-.3	-.1	-.2	-.2	2.2	4.7	3.0	-.5
93.0	2.5	-.4	-.5	-.2	-.6	-.3	-.1	-.2	-.2	2.1	4.6	2.8	-.3
94.0	2.5	-.4	-.5	-.2	-.5	-.3	-.1	-.2	-.2	2.1	4.6	2.8	-.3
95.0	2.6	-.3	-.5	-.2	-.5	-.3	-.1	-.2	-.2	2.0	4.6	2.7	-.2
96.0	2.5	-.3	-.5	-.3	-.5	-.2	-.1	-.2	-.2	2.0	4.6	2.6	-.1
97.0	2.5	-.3	-.5	-.2	-.5	-.3	-.1	-.2	-.2	2.0	4.5	2.5	.0
98.0	2.5	-.3	-.6	-.4	-.5	-.3	-.1	-.2	-.2	2.0	4.5	2.5	.0
99.0	2.5	-.3	-.6	-.4	-.5	-.3	-.1	-.2	-.2	2.0	4.4	2.4	.0

AERO/ENVIRONMENT

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	-3.6	.1	.5	.1	-.1	-.1	.0	.1	.0	.7	-2.9	.7	-4.3
51.0	-3.6	.1	.6	.1	-.1	-.1	.0	.1	.0	.7	-2.9	.7	-4.3
52.0	-3.6	.1	.6	.1	-.1	-.1	.0	.1	.0	.7	-2.9	.7	-4.3
53.0	-3.6	.1	.6	.0	-.1	-.1	.0	.1	.0	.7	-2.9	.7	-4.3
54.0	-3.6	.1	.6	.0	-.1	-.1	.0	.1	.0	.7	-2.9	.8	-4.3
55.0	-3.5	.0	.6	.1	-.1	-.1	.0	.0	.0	.7	-2.8	.8	-4.3
56.0	-3.5	.0	.6	.1	-.1	-.1	.0	.0	.0	.7	-2.8	.8	-4.3
57.0	-3.6	.0	.6	.1	-.1	-.1	.0	.0	.0	.7	-2.8	.7	-4.3
58.0	-3.6	.0	.6	.1	-.1	-.1	.0	.0	.0	.7	-2.8	.7	-4.3
59.0	-3.6	.1	.6	.1	-.1	-.1	.0	.0	.0	.8	-2.8	.7	-4.3
60.0	-3.6	.1	.6	.1	-.1	-.1	.0	.0	.0	.9	-2.7	.8	-4.3
61.0	-3.4	.1	.6	.0	-.1	-.1	.0	.1	.0	.9	-2.5	.9	-4.3
62.0	-3.2	.1	.6	.1	-.1	-.1	.0	.1	.0	1.0	-2.2	1.1	-4.3
63.0	-3.0	.2	.6	.1	-.1	-.1	.0	.1	.1	1.2	-1.8	1.2	-4.2
64.0	-2.7	.2	.6	.0	-.1	-.1	.0	.1	.1	1.3	-1.5	1.3	-4.1
65.0	-2.4	.2	.6	.0	-.1	.0	.0	.1	.1	1.3	-1.1	1.5	-3.9
66.0	-2.1	.2	.5	.0	-.1	.0	.0	.1	.1	1.3	-.8	1.6	-3.7
67.0	-1.7	.2	.5	.0	-.1	.0	.0	.1	.1	1.3	-.4	1.6	-3.4
68.0	-1.4	.2	.5	.0	-.1	.0	.0	.1	.0	1.3	-.1	1.7	-3.1
69.0	-1.1	.2	.5	.0	-.1	.0	.0	.1	.0	1.3	.3	1.7	-2.7
70.0	-.8	.2	.5	.0	-.1	.0	.0	.1	-.1	1.3	.6	1.6	-2.4
71.0	-.5	.2	.5	.0	.0	.0	.0	.1	-.1	1.4	.9	1.6	-2.1
72.0	-.2	.2	.5	.0	.0	.0	.0	.1	-.1	1.5	1.3	1.6	-1.9
73.0	.1	.2	.5	.0	.0	.0	.0	.1	-.1	1.7	1.7	1.7	-1.6
74.0	.4	.2	.5	.0	.0	.0	.0	.1	-.1	1.7	2.2	1.9	-1.5
75.0	.8	.2	.6	.0	.0	.0	.0	.1	-.1	1.8	2.6	2.0	-1.2
76.0	1.1	.2	.6	.1	.1	.1	.0	.1	-.1	2.0	3.1	2.1	-1.0
77.0	1.5	.3	.6	.0	.1	.1	.0	.1	-.1	2.0	3.5	2.2	-.7
78.0	1.9	.3	.5	.0	.1	.1	.0	.1	-.1	1.8	3.7	2.4	-.5
79.0	2.2	.2	.5	.1	.2	.1	.0	.0	-.1	1.6	3.8	2.5	-.3
80.0	2.3	.1	.5	.1	.2	.1	.0	.0	-.1	1.6	3.9	2.3	.0
81.0	2.3	.1	.5	.1	.3	.2	.0	.0	-.1	1.7	4.0	2.1	.2
82.0	2.4	.1	.4	.1	.3	.2	.0	.0	-.1	1.8	4.1	2.1	.3
83.0	2.4	.1	.4	.1	.3	.2	.0	.0	-.1	1.9	4.2	2.1	.2
84.0	2.3	.1	.4	.1	.4	.2	.0	.0	-.1	2.1	4.4	2.2	.1
85.0	2.3	.1	.4	.1	.4	.2	.0	.0	-.2	2.1	4.4	2.4	.0
86.0	2.3	.1	.4	.1	.5	.2	.0	.0	-.2	2.1	4.5	2.5	-.2
87.0	2.4	.1	.4	.1	.5	.2	.0	.0	-.2	2.1	4.5	2.7	-.3
88.0	2.3	.1	.4	.2	.5	.2	.0	.0	-.1	2.1	4.4	2.7	-.4
89.0	2.3	.1	.4	.2	.5	.2	.0	.0	-.1	2.2	4.5	2.8	-.4
90.0	2.4	.1	.4	.2	.5	.2	.0	.0	-.1	2.2	4.5	2.8	-.4
91.0	2.2	.2	.5	.2	.5	.2	.0	.0	-.1	2.5	4.7	2.4	-.2
92.0	2.5	.2	.5	.2	.5	.2	.0	.0	-.1	2.2	4.7	3.0	-.5
93.0	2.5	.2	.5	.2	.5	.2	.0	.0	-.1	2.1	4.6	2.8	-.3
94.0	2.5	.1	.5	.2	.5	.2	.0	.0	-.1	2.1	4.6	2.8	-.3
95.0	2.6	.1	.5	.3	.5	.2	.0	.0	-.1	2.0	4.6	2.7	-.2
96.0	2.5	.1	.5	.3	.5	.2	.0	.0	-.1	2.0	4.6	2.6	-.1
97.0	2.5	.1	.5	.3	.5	.2	.0	.0	-.1	2.0	4.5	2.5	.0
98.0	2.5	.1	.5	.3	.5	.2	.0	.0	-.1	2.0	4.5	2.5	.0
99.0	2.5	.1	.5	.3	.4	.2	.0	.0	-.1	2.0	4.4	2.4	.0

AERO/ENVIRONMENT

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	2.4	-.3	-.6	-.4	-.5	-.3	-.1	-.2	-.2	1.9	4.4	2.4	.0
101.0	2.4	-.3	-.6	-.4	-.5	-.3	-.1	-.2	-.2	1.9	4.3	2.4	.1
102.0	2.4	-.3	-.6	-.4	-.5	-.3	-.1	-.2	-.2	1.9	4.3	2.3	.1
103.0	2.4	-.3	-.6	-.4	-.5	-.2	-.1	-.2	-.1	1.9	4.3	2.3	.1
104.0	2.4	-.3	-.6	-.4	-.5	-.2	-.1	-.2	-.1	1.9	4.3	2.3	.1
105.0	2.3	-.3	-.6	-.4	-.5	-.2	-.1	-.2	-.1	1.9	4.2	2.3	.0
106.0	2.3	-.3	-.6	-.4	-.5	-.2	-.1	-.2	-.1	1.9	4.2	2.3	.1
107.0	2.3	-.3	-.6	-.4	-.4	-.2	-.1	-.2	-.1	1.8	4.2	2.3	.1
108.0	2.4	-.3	-.6	-.4	-.4	-.2	-.1	-.2	-.1	1.8	4.2	2.3	.1
109.0	2.4	-.3	-.6	-.4	-.4	-.2	-.1	-.2	-.1	1.8	4.2	2.3	.1
110.0	2.3	-.3	-.6	-.4	-.4	-.2	-.1	-.2	-.1	1.9	4.2	2.2	.1
111.0	2.5	-.4	-.6	-.4	-.4	-.2	-.1	-.2	-.1	1.7	4.2	2.3	.2
112.0	2.6	-.4	-.6	-.4	-.4	-.2	-.1	-.2	-.1	1.5	4.2	2.4	.3
113.0	2.7	-.4	-.5	-.4	-.4	-.2	-.1	-.2	-.1	1.5	4.2	2.4	.3
114.0	2.7	-.4	-.4	-.3	-.3	-.2	.0	-.2	-.1	1.6	4.4	2.2	.5
115.0	2.8	-.5	-.3	-.2	-.2	-.1	.0	-.3	.0	1.7	4.5	2.1	.7
116.0	3.0	-.7	-.3	-.2	-.2	-.1	.0	-.4	.0	1.6	4.6	2.3	.8
117.0	3.1	-.8	-.2	-.2	-.2	-.1	.0	-.4	.0	1.7	4.8	2.4	.7
118.0	3.1	-.8	-.2	-.1	-.1	-.1	.0	-.4	.0	1.8	4.9	2.3	.8
119.0	3.0	-.8	-.1	-.1	-.1	.0	.0	-.4	.0	1.9	4.9	2.2	.8
120.0	2.8	-.9	-.1	-.1	-.1	.0	.0	-.5	.0	1.9	4.7	2.3	.5
121.0	2.6	-1.0	-.1	-.1	-.1	.0	.0	-.5	.0	1.9	4.5	2.3	.3
122.0	2.4	-1.0	-.1	-.1	-.1	.0	.0	-.5	.0	1.9	4.2	2.4	-.1
123.0	2.1	-1.0	-.1	-.1	-.1	.0	.0	-.5	.1	1.9	4.0	2.4	-.3
124.0	1.9	-1.0	-.1	-.1	-.1	.0	.0	-.5	.0	1.9	3.7	2.5	-.6
125.0	1.6	-1.0	-.1	-.1	-.1	.0	.0	-.5	.0	1.9	3.4	2.5	-.9
126.0	1.3	-1.0	-.1	-.1	-.1	.0	.0	-.5	.0	1.9	3.2	2.5	-1.2
127.0	1.1	-1.0	-.1	-.1	-.1	.0	.0	-.5	.0	1.8	2.9	2.5	-1.4
128.0	.8	-1.0	-.1	-.1	-.1	.0	.0	-.5	.0	2.5	3.3	2.4	-1.6
129.0	.5	-1.0	-.1	-.1	-.1	.0	.0	-.5	.0	4.7	5.2	2.4	-1.9
130.0	.3	-1.0	-.1	-.1	-.1	.0	.0	-.5	.0	7.0	7.2	2.4	-2.1
140.0	7.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.6	.7	6.3
150.0	6.4	-.5	-1.1	-1.1	-1.0	-.5	-.1	-.1	-.3	3.5	9.9	4.3	2.1
160.0	4.6	-.5	-1.0	-1.1	-.9	-.4	-.1	-.1	-.3	3.1	7.7	4.1	.5
170.0	2.8	-.5	-.9	-1.0	-.8	-.4	-.1	-.1	-.3	2.9	5.7	3.8	-.9
180.0	1.3	-.5	-.8	-.9	-.7	-.4	-.1	-.1	-.3	2.7	3.9	3.5	-2.2
190.0	.0	-.5	-.8	-.9	-.7	-.3	-.1	-.1	-.2	2.4	2.4	3.2	-3.3
200.0	-1.2	-.4	-.7	-.8	-.6	-.3	-.1	-.1	-.2	2.2	1.1	3.0	-4.2
210.0	-2.1	-.4	-.7	-.7	-.6	-.3	-.1	-.1	-.2	2.0	-.1	2.8	-4.9
220.0	-2.9	-.4	-.6	-.6	-.5	-.3	-.1	-.1	-.2	1.9	-1.0	2.6	-5.5
230.0	-3.5	-.4	-.5	-.6	-.5	-.2	-.1	.0	-.2	1.7	-1.8	2.4	-5.9
240.0	-4.0	-.3	-.5	-.5	-.4	-.2	-.1	.0	-.1	1.6	-2.5	2.2	-6.2
250.0	-4.4	-.3	-.5	-.5	-.4	-.2	-.1	.0	-.1	1.4	-3.0	2.0	-6.3
260.0	-4.6	-.3	-.4	-.4	-.3	-.2	.0	.0	-.1	1.3	-3.3	1.8	-6.4
270.0	-4.7	-.3	-.4	-.4	-.3	-.2	.0	.0	-.1	1.1	-3.6	1.6	-6.3
280.0	-4.7	-.3	-.3	-.3	-.3	-.1	.0	.0	-.1	1.0	-3.7	1.5	-6.2
290.0	-4.7	-.2	-.3	-.3	-.2	-.1	.0	.0	-.1	.9	-3.8	1.3	-6.0
300.0	-4.5	-.2	-.2	-.3	-.2	-.1	.0	.0	-.1	.8	-3.7	1.2	-5.7
310.0	-4.3	-.2	-.2	-.2	-.2	-.1	.0	.0	-.1	.7	-3.6	1.0	-5.3
320.0	-4.0	-.2	-.2	-.2	-.1	-.1	.0	.0	.0	.6	-3.4	.9	-4.8

AERO/ENVIRONMENT

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	2.4	.1	.6	.3	.4	.2	.0	.0	-.1	1.9	4.4	2.4	.0
101.0	2.4	.1	.6	.3	.4	.2	.0	.0	-.1	1.9	4.3	2.4	.1
102.0	2.4	.1	.6	.3	.4	.2	.0	.0	-.1	1.9	4.3	2.3	.1
103.0	2.4	.1	.6	.3	.4	.2	.0	.0	-.1	1.9	4.3	2.3	.1
104.0	2.4	.1	.6	.3	.4	.2	.0	.0	-.1	1.9	4.3	2.3	.1
105.0	2.3	.2	.6	.3	.4	.2	.0	.0	-.1	1.9	4.2	2.3	.0
106.0	2.3	.2	.6	.3	.4	.2	.0	.0	-.1	1.9	4.2	2.3	.1
107.0	2.3	.2	.6	.4	.4	.2	.0	.0	-.1	1.8	4.2	2.3	.1
108.0	2.4	.2	.6	.4	.4	.2	.0	.0	-.1	1.8	4.2	2.3	.1
109.0	2.4	.2	.6	.4	.4	.2	.0	.0	-.1	1.8	4.2	2.3	.1
110.0	2.3	.2	.6	.4	.4	.2	.0	.0	-.1	1.9	4.2	2.2	.1
111.0	2.5	.3	.5	.3	.3	.2	.0	.0	-.1	1.7	4.2	2.3	.2
112.0	2.6	.3	.5	.3	.3	.1	.0	.1	-.1	1.5	4.2	2.4	.3
113.0	2.7	.3	.5	.3	.3	.1	.0	.1	-.1	1.5	4.2	2.4	.3
114.0	2.7	.5	.4	.3	.3	.1	.0	.1	-.1	1.6	4.4	2.2	.5
115.0	2.8	.7	.3	.2	.2	.1	.0	.3	-.2	1.7	4.5	2.1	.7
116.0	3.0	.7	.2	.2	.2	.1	.0	.3	-.2	1.6	4.6	2.3	.8
117.0	3.1	.8	.2	.2	.2	.1	.0	.3	-.2	1.7	4.8	2.4	.7
118.0	3.1	.9	.2	.2	.2	.1	.0	.4	-.2	1.8	4.9	2.3	.8
119.0	3.0	1.0	.1	.1	.1	.0	.0	.5	-.2	1.9	4.9	2.2	.8
120.0	2.8	1.0	.1	.1	.1	.0	.0	.5	-.2	1.9	4.7	2.3	.5
121.0	2.6	.9	.1	.1	.1	.0	.0	.5	-.2	1.9	4.5	2.3	.3
122.0	2.4	.9	.1	.1	.1	.0	.0	.4	-.2	1.9	4.2	2.4	-.1
123.0	2.1	.9	.1	.1	.1	.0	.0	.4	-.2	1.9	4.0	2.4	-.3
124.0	1.9	.9	.1	.1	.1	.0	.0	.4	-.2	1.9	3.7	2.5	-.6
125.0	1.6	.9	.1	.1	.1	.0	.0	.4	-.2	1.9	3.4	2.5	-.9
126.0	1.3	.9	.1	.1	.1	.0	.0	.4	-.2	1.9	3.2	2.5	-1.2
127.0	1.1	.9	.1	.1	.1	.0	.0	.4	-.2	1.8	2.9	2.5	-1.4
128.0	.8	.9	.1	.1	.1	.0	.0	.4	-.2	2.5	3.3	2.4	-1.6
129.0	.5	.9	.1	.1	.1	.0	.0	.4	-.2	4.7	5.2	2.4	-1.9
130.0	.3	.9	.1	.1	.1	.0	.0	.4	-.2	7.0	7.2	2.4	-2.1
140.0	7.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.6	.7	6.3
150.0	6.4	.2	.9	1.0	.8	.4	.0	-.3	-.2	3.5	9.9	4.3	2.1
160.0	4.6	.1	.8	.9	.7	.3	.0	-.3	-.2	3.1	7.7	4.1	.5
170.0	2.8	.2	.8	.8	.7	.3	.0	-.3	-.2	2.9	5.7	3.8	-.9
180.0	1.3	.2	.7	.8	.6	.3	.0	-.2	-.2	2.7	3.9	3.5	-2.2
190.0	.0	.2	.6	.7	.6	.3	.0	-.2	-.1	2.4	2.4	3.2	-3.3
200.0	-1.2	.2	.6	.6	.5	.2	.0	-.2	-.1	2.2	1.1	3.0	-4.2
210.0	-2.1	.2	.5	.6	.5	.2	.0	-.2	-.1	2.0	-.1	2.8	-4.9
220.0	-2.9	.2	.5	.5	.4	.2	.0	-.2	-.1	1.9	-1.0	2.6	-5.5
230.0	-3.5	.2	.4	.5	.4	.2	.0	-.1	-.1	1.7	-1.8	2.4	-5.9
240.0	-4.0	.2	.4	.4	.4	.2	.0	-.1	-.1	1.6	-2.5	2.2	-6.2
250.0	-4.4	.2	.4	.4	.3	.1	.0	-.1	-.1	1.4	-3.0	2.0	-6.3
260.0	-4.6	.2	.3	.4	.3	.1	.0	-.1	-.1	1.3	-3.3	1.8	-6.4
270.0	-4.7	.1	.3	.3	.3	.1	.0	-.1	-.1	1.1	-3.6	1.6	-6.3
280.0	-4.7	.1	.3	.3	.2	.1	.0	-.1	-.1	1.0	-3.7	1.5	-6.2
290.0	-4.7	.1	.2	.2	.2	.1	.0	-.1	-.1	.9	-3.8	1.3	-6.0
300.0	-4.5	.1	.2	.2	.2	.1	.0	.0	-.1	.8	-3.7	1.2	-5.7
310.0	-4.3	.1	.2	.2	.1	.1	.0	.0	-.1	.7	-3.6	1.0	-5.3
320.0	-4.0	.1	.1	.1	.1	.0	.0	.0	.0	.6	-3.4	.9	-4.8

AERO/ENVIRONMENT

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+PSS	NOM+RSS	-PSS	NOM-RSS
330.0	-3.6	-.1	-.1	-.1	-.1	.0	.0	.0	.0	.5	-3.1	.7	-4.3
340.0	-3.2	-.1	-.1	-.1	-.1	.0	.0	.0	.0	.4	-2.8	.6	-3.8
350.0	-2.7	-.1	-.1	-.1	.0	.0	.0	.0	.0	.3	-2.4	.5	-3.2
360.0	-2.2	-.1	.0	.0	.0	.0	.0	.0	.0	.3	-1.9	.4	-2.6
370.0	-1.7	-.1	.0	.0	.0	.0	.0	.0	.0	.3	-1.4	.4	-2.1
380.0	-1.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	-.8	.4	-1.6
390.0	-.6	.0	.1	.1	.1	.0	.0	.0	.0	.4	-.2	.5	-1.1
400.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.7	.7	.6	-.6
410.0	.5	.0	.1	.1	.1	.1	.0	.0	.0	1.3	1.8	.7	-.1
420.0	1.0	.1	.2	.2	.2	.1	.0	.0	.1	1.4	2.4	.8	.3
430.0	1.5	.1	.2	.2	.2	.1	.0	.0	.1	1.3	2.8	.9	.6
440.0	1.9	.1	.2	.2	.2	.1	.0	.0	.1	1.3	3.2	1.0	.9
450.0	2.1	.1	.3	.3	.2	.1	.0	.0	.1	1.4	3.6	1.1	1.0
460.0	2.2	.1	.3	.3	.3	.1	.0	.0	.1	1.6	3.9	1.4	.8
470.0	2.2	.2	.3	.3	.3	.2	.0	.0	.1	1.7	3.9	1.9	.3
480.0	2.5	.2	.3	.4	.3	.2	.0	.0	.1	1.6	4.1	2.5	.0

AERO/ENVIRONMENT

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-3.6	.1	.1	.1	.1	.0	.0	.0	.0	.5	-3.1	.7	-4.3
340.0	-3.2	.1	.1	.1	.1	.0	.0	.0	.0	.4	-2.8	.6	-3.8
350.0	-2.7	.1	.1	.1	.0	.0	.0	.0	.0	.3	-2.4	.5	-3.2
360.0	-2.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	-1.9	.4	-2.6
370.0	-1.7	.1	.0	.0	.0	.0	.0	.0	.0	.3	-1.4	.4	-2.1
380.0	-1.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	-.8	.4	-1.6
390.0	-.6	.0	-.1	-.1	-.1	.0	.0	.0	.0	.4	-.2	.5	-1.1
400.0	.0	.0	-.1	-.1	-.1	-.1	.0	.0	.0	.7	.7	.6	-.6
410.0	.5	.0	-.1	-.1	-.1	-.1	.0	.1	.0	1.3	1.8	.7	-.1
420.0	1.0	.0	-.1	-.1	-.1	-.1	.0	.1	.0	1.4	2.4	.8	.3
430.0	1.5	.0	-.2	-.2	-.2	-.1	.0	.1	.0	1.3	2.8	.9	.6
440.0	1.9	.0	-.2	-.2	-.2	-.1	.0	.1	.0	1.3	3.2	1.0	.9
450.0	2.1	.0	-.2	-.2	-.2	-.1	.0	.1	.0	1.4	3.6	1.1	1.0
460.0	2.2	.0	-.2	-.3	-.2	-.1	.0	.1	.1	1.6	3.9	1.4	.8
470.0	2.2	.0	-.2	-.3	-.2	-.1	.0	.1	.1	1.7	3.9	1.9	.3
480.0	2.5	-.1	-.2	-.3	-.3	-.2	.0	.1	.1	1.6	4.1	2.5	.0

MASS PROPERTIES

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	-.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.4	-.7
2.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	4.9	.4	4.0
3.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	6.2	.6	5.0
4.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	6.7	.6	5.3
5.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	6.9	.7	5.5
6.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	7.0	.7	5.5
7.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	7.0	.7	5.5
8.0	6.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.8	7.3	.5	6.0
9.0	7.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	8.6	.5	7.2
10.0	9.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.7	9.7	.6	8.4
11.0	9.6	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.8	10.3	.8	8.8
12.0	9.7	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.8	10.5	.9	8.8
13.0	9.5	.0	-.1	.0	.0	.0	-.1	.0	.0	.0	.8	10.3	.9	8.6
14.0	9.2	.0	-.1	.0	.0	.0	-.1	.0	.0	.0	.8	10.0	1.0	8.2
15.0	8.7	.0	-.1	.0	.0	.0	-.1	.0	.0	.0	.8	9.5	.9	7.8
16.0	8.3	.0	-.1	.0	.0	.0	-.1	.0	.0	.0	.7	9.0	.9	7.3
17.0	7.6	.0	-.1	.0	.0	.0	-.1	.0	.0	.0	.7	8.3	1.2	6.4
18.0	6.2	.0	-.1	.0	.0	.0	-.1	.0	.0	.0	.8	7.0	1.4	4.8
19.0	4.7	.0	-.1	.0	.0	.0	-.1	.0	.0	.0	.8	5.4	1.2	3.5
20.0	3.5	.0	-.1	.0	.0	.0	-.1	.0	.0	.0	.7	4.2	1.3	2.2
21.0	2.6	.0	-.2	.0	.0	.0	.0	.0	.0	.0	.8	3.4	1.6	1.0
22.0	1.9	.1	-.2	.0	.0	.0	.0	.0	.0	.0	1.0	2.9	1.6	.3
23.0	1.2	.1	-.2	.0	.0	.0	.0	.0	.0	.0	1.2	2.4	1.5	-.3
24.0	.2	.1	-.2	.0	.0	.0	.0	.0	.0	.0	1.4	1.6	1.1	-.9
25.0	-.6	.1	-.2	.0	.0	.0	.0	.0	.0	.0	1.2	.6	1.1	-1.7
26.0	-1.3	.1	-.1	.0	.0	.0	.0	.0	.0	.0	1.1	-.2	1.2	-2.5
27.0	-1.8	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.0	-.8	1.3	-3.2
28.0	-2.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.9	-1.2	1.6	-3.7
29.0	-2.2	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.9	-1.3	1.7	-4.0
30.0	-2.4	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.9	-1.5	1.6	-4.0
31.0	-2.5	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.9	-1.7	1.3	-3.8
32.0	-2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.7	1.1	-3.7
33.0	-2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.7	1.0	-3.6
34.0	-2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.8	.9	-3.6
35.0	-2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.9	.9	-3.6
36.0	-2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-2.0	.9	-3.7
37.0	-3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-2.1	.9	-3.8
38.0	-3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-2.2	.8	-3.9
39.0	-3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-2.2	.8	-3.9
40.0	-3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	-2.3	.7	-3.8
41.0	-3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.4	.7	-3.8
42.0	-3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.7	-3.9
43.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.7	.7	-4.0
44.0	-3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.8	.6	-4.1
45.0	-3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.6	-4.2
46.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.6	-4.2
47.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
48.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
49.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3

MASS PROPERTIES

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	-.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.4	-.7
2.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	4.9	.4	4.0
3.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	6.2	.6	5.0
4.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	6.7	.6	5.3
5.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	6.9	.7	5.5
6.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	7.0	.7	5.5
7.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	7.0	.7	5.5
8.0	6.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	7.3	.5	6.0
9.0	7.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.9	8.6	.5	7.2
10.0	9.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.7	9.7	.6	8.4
11.0	9.6	.0	.0	.0	.0	.0	.1	.0	.0	.0	.8	10.3	.8	8.8
12.0	9.7	.0	.0	.0	.0	.0	.1	.0	.0	.0	.8	10.5	.9	8.8
13.0	9.5	-.1	.0	.0	.0	.0	.1	.0	.0	.0	.8	10.3	.9	8.6
14.0	9.2	-.1	.0	.0	.0	.0	.1	.0	.0	.0	.8	10.0	1.0	8.2
15.0	8.7	-.1	.0	.0	.0	.0	.1	.0	.0	.0	.8	9.5	.9	7.8
16.0	8.3	-.1	.0	.0	.0	.0	.1	.0	.0	.0	.7	9.0	.9	7.3
17.0	7.6	-.3	.0	.0	.0	.0	.1	.0	.0	.0	.7	8.3	1.2	6.4
18.0	6.2	-.3	.0	.0	.0	.0	.1	.0	.0	.0	.8	7.0	1.4	4.8
19.0	4.7	-.3	.0	.0	.0	.0	.1	.0	.0	.0	.8	5.4	1.2	3.5
20.0	3.5	-.3	.0	.0	.0	.0	.1	.0	.0	.0	.7	4.2	1.3	2.2
21.0	2.6	-.2	.0	.0	.0	.0	.1	.0	.0	.0	.8	3.4	1.6	1.0
22.0	1.9	-.2	.1	.0	.0	.0	.1	.0	.0	.0	1.0	2.9	1.6	.3
23.0	1.2	-.2	.1	.0	.0	.0	.1	.0	.0	.0	1.2	2.4	1.5	-.3
24.0	.2	-.2	.1	.0	.0	.0	.1	.0	.0	.0	1.4	1.6	1.1	-.9
25.0	-.6	-.1	.1	.0	.0	.0	.1	.0	.0	.0	1.2	.6	1.1	-1.7
26.0	-1.3	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.1	-.2	1.2	-2.5
27.0	-1.8	-.1	.1	.0	.0	.0	.0	.0	.0	.0	1.0	-.8	1.3	-3.2
28.0	-2.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.2	1.6	-3.7
29.0	-2.2	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.3	1.7	-4.0
30.0	-2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.5	1.6	-4.0
31.0	-2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.7	1.3	-3.8
32.0	-2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.7	1.1	-3.7
33.0	-2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.7	1.0	-3.6
34.0	-2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.8	.9	-3.6
35.0	-2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-1.9	.9	-3.6
36.0	-2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-2.0	.9	-3.7
37.0	-3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-2.1	.9	-3.8
38.0	-3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-2.2	.8	-3.9
39.0	-3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-2.2	.8	-3.9
40.0	-3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-2.3	.7	-3.8
41.0	-3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.4	.7	-3.8
42.0	-3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.6	.7	-3.9
43.0	-3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.7	.7	-4.0
44.0	-3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.8	.6	-4.1
45.0	-3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.6	-4.2
46.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.6	-4.2
47.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
48.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
49.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3

MASS PROPERTIES

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
51.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
52.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
53.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
54.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.8	-4.3
55.0	-3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.8	.8	-4.3
56.0	-3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.8	.8	-4.3
57.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.8	.7	-4.3
58.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.8	.7	-4.3
59.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-2.8	.7	-4.3
60.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-2.7	.8	-4.3
61.0	-3.4	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.9	-2.5	.9	-4.3
62.0	-3.2	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	-2.2	1.1	-4.3
63.0	-3.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.2	-1.8	1.2	-4.2
64.0	-2.7	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	-1.5	1.3	-4.1
65.0	-2.4	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	-1.1	1.5	-3.9
66.0	-2.1	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	-.8	1.6	-3.7
67.0	-1.7	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	-.4	1.6	-3.4
68.0	-1.4	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	-.1	1.7	-3.1
69.0	-1.1	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.3	1.7	-2.7
70.0	-.8	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.6	1.6	-2.4
71.0	-.5	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.9	1.6	-2.1
72.0	-.2	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.3	1.6	-1.9
73.0	.1	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.7	1.7	-1.6
74.0	.4	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.7	2.2	1.9	-1.5
75.0	.8	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.6	2.6	2.0	-1.2
76.0	1.1	-.2	.0	.0	.0	.0	.0	.0	.0	.0	2.0	3.1	2.1	-1.0
77.0	1.5	-.2	.0	.0	.0	.0	.0	.0	.0	.0	2.0	3.5	2.2	-.7
78.0	1.9	-.2	.0	.0	.0	.0	.0	.0	.0	.0	1.8	3.7	2.4	-.5
79.0	2.2	-.2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	3.8	2.5	-.3
80.0	2.3	-.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.6	3.9	2.3	.0
81.0	2.3	-.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.7	4.0	2.1	.2
82.0	2.4	-.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.8	4.1	2.1	.3
83.0	2.4	-.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.2	2.1	.2
84.0	2.3	-.2	-.1	.0	.0	.0	.0	.0	.0	.0	2.1	4.4	2.2	.1
85.0	2.3	-.2	-.1	.0	.0	.0	-.1	.0	.0	.0	2.1	4.4	2.4	.0
86.0	2.3	-.2	-.1	.0	.0	.0	-.1	.0	.0	.0	2.1	4.5	2.5	-.2
87.0	2.4	-.2	-.1	.0	.0	.0	-.1	.0	.0	.0	2.1	4.5	2.7	-.3
88.0	2.3	-.2	-.1	.0	.0	.0	-.1	.0	.0	.0	2.1	4.4	2.7	-.4
89.0	2.3	-.2	-.1	.0	.0	.0	-.1	.0	.0	.0	2.2	4.5	2.8	-.4
90.0	2.4	-.2	-.1	.0	.0	.0	-.1	.0	.0	.0	2.2	4.5	2.8	-.4
91.0	2.2	-.2	-.1	.0	.0	.0	-.1	.0	.0	.0	2.5	4.7	2.4	-.2
92.0	2.5	-.2	-.1	.0	.0	.0	-.1	.0	.0	.0	2.2	4.7	3.0	-.5
93.0	2.5	-.2	-.1	.0	.0	.0	-.1	.0	.0	.0	2.1	4.6	2.8	-.3
94.0	2.5	-.2	-.1	.0	.0	.0	-.1	.0	.0	.0	2.1	4.6	2.8	-.3
95.0	2.6	-.2	-.1	.0	.0	.0	-.1	.0	.0	.0	2.0	4.6	2.7	-.2
96.0	2.5	-.2	-.1	.0	.0	.0	-.1	.0	.0	.0	2.0	4.6	2.6	-.1
97.0	2.5	-.2	-.1	.0	.0	.0	-.1	.0	.0	.0	2.0	4.5	2.5	.0
98.0	2.5	-.2	-.1	.0	.0	.0	-.1	.0	.0	.0	2.0	4.5	2.5	.0
99.0	2.5	-.2	-.1	.0	.0	.0	-.1	.0	.0	.0	2.0	4.4	2.4	.0

MASS PROPERTIES

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
51.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
52.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
53.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.7	-4.3
54.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.9	.8	-4.3
55.0	-3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.8	.8	-4.3
56.0	-3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.8	.8	-4.3
57.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.8	.7	-4.3
58.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	-2.8	.7	-4.3
59.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	-2.8	.7	-4.3
60.0	-3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-2.7	.8	-4.3
61.0	-3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	-2.5	.9	-4.3
62.0	-3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	-2.2	1.1	-4.3
63.0	-3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	-1.8	1.2	-4.2
64.0	-2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	-1.5	1.3	-4.1
65.0	-2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	-1.1	1.5	-3.9
66.0	-2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	-.8	1.6	-3.7
67.0	-1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	-.4	1.6	-3.4
68.0	-1.4	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.3	-.1	1.7	-3.1
69.0	-1.1	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.3	.3	1.7	-2.7
70.0	-.8	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.3	.6	1.6	-2.4
71.0	-.5	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.4	.9	1.6	-2.1
72.0	-.2	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.5	1.3	1.6	-1.9
73.0	.1	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.7	1.7	1.7	-1.6
74.0	.4	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.7	2.2	1.9	-1.5
75.0	.8	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.8	2.6	2.0	-1.2
76.0	1.1	.0	-.1	.0	.0	.0	.0	.0	.0	.0	2.0	3.1	2.1	-1.0
77.0	1.5	.0	-.1	.0	.0	.0	.0	.0	.0	.0	2.0	3.5	2.2	-.7
78.0	1.9	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.8	3.7	2.4	-.5
79.0	2.2	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.6	3.9	2.5	-.3
80.0	2.3	.0	-.1	.0	.0	.0	.0	.0	.0	.0	1.6	3.9	2.3	.0
81.0	2.3	.0	-.2	.0	.0	.0	.0	.0	.0	.0	1.7	4.0	2.1	.2
82.0	2.4	.0	-.2	.0	.0	.0	.0	.0	.0	.0	1.8	4.1	2.1	.3
83.0	2.4	.0	-.2	.0	.0	.0	.0	.0	.0	.0	1.9	4.2	2.1	.2
84.0	2.3	.0	-.2	.0	.0	.0	.0	.0	.0	.0	2.1	4.4	2.2	.1
85.0	2.3	.0	-.2	.0	.0	.0	.0	.0	.0	.0	2.1	4.4	2.4	.0
86.0	2.3	.0	-.2	.0	.0	.0	.0	.0	.0	.0	2.1	4.5	2.5	-.2
87.0	2.4	.0	-.2	.0	.0	.0	.0	.0	.0	.0	2.1	4.5	2.7	-.3
88.0	2.3	.0	-.2	.0	.0	.0	.0	.0	.0	.0	2.1	4.4	2.7	-.4
89.0	2.3	.0	-.2	.0	.0	.0	.0	.0	.0	.0	2.2	4.5	2.8	-.4
90.0	2.4	.0	-.2	.0	.0	.0	.0	.0	.0	.0	2.2	4.5	2.8	-.4
91.0	2.2	.0	-.2	.0	.0	.0	.0	.0	.0	.0	2.5	4.7	2.4	-.2
92.0	2.5	.0	-.2	.0	.0	.0	.0	.0	.0	.0	2.2	4.7	3.0	-.5
93.0	2.5	.0	-.2	.0	.0	.0	.0	.0	.0	.0	2.1	4.6	2.8	-.3
94.0	2.5	.0	-.2	.0	.0	.0	.0	.0	.0	.0	2.1	4.6	2.8	-.3
95.0	2.6	.0	-.2	.0	.0	.0	.0	.0	.0	.0	2.0	4.6	2.7	-.2
96.0	2.5	.0	-.2	.0	.0	.0	.0	.0	.0	.0	2.0	4.6	2.6	-.1
97.0	2.5	.0	-.2	.0	.0	.0	.0	.0	.0	.0	2.0	4.5	2.5	.0
98.0	2.5	.0	-.2	.0	.0	.0	.0	.0	.0	.0	2.0	4.5	2.5	.0
99.0	2.5	.0	-.2	.0	.0	.0	.0	.0	.0	.0	2.0	4.4	2.4	.0

MASS PROPERTIES

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-PSS
100.0	2.4	-.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.4	2.4	.0
101.0	2.4	-.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.3	2.4	.1
102.0	2.4	-.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.3	2.3	.1
103.0	2.4	-.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.3	2.3	.1
104.0	2.4	-.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.3	2.3	.1
105.0	2.3	-.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.2	2.3	.0
106.0	2.3	-.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.2	2.3	.1
107.0	2.3	-.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.8	4.2	2.3	.1
108.0	2.4	-.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.8	4.2	2.3	.1
109.0	2.4	-.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.8	4.2	2.3	.1
110.0	2.3	-.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.2	2.2	.1
111.0	2.5	-.2	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.2	2.3	.2
112.0	2.6	-.2	.0	.0	.0	.0	.0	.0	.0	.0	1.5	4.2	2.4	.3
113.0	2.7	-.2	.0	.0	.0	.0	.0	.0	.0	.0	1.5	4.2	2.4	.3
114.0	2.7	-.2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	4.4	2.2	.5
115.0	2.8	-.3	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.5	2.1	.7
116.0	3.0	-.3	.0	.0	.0	.0	.0	.0	.0	.0	1.6	4.6	2.3	.8
117.0	3.1	-.3	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.8	2.4	.7
118.0	3.1	-.3	.1	.0	.0	.0	.0	.0	.0	.0	1.8	4.9	2.3	.8
119.0	3.0	-.3	.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.9	2.2	.8
120.0	2.8	-.3	.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.7	2.3	.5
121.0	2.6	-.3	.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.5	2.3	.3
122.0	2.4	-.3	.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.2	2.4	-.1
123.0	2.1	-.3	.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.0	2.4	-.3
124.0	1.9	-.3	.1	.0	.0	.0	.0	.0	.0	.0	1.9	3.7	2.5	-.6
125.0	1.6	-.3	.1	.0	.0	.0	.0	.0	.0	.0	1.9	3.4	2.5	-.9
126.0	1.3	-.3	.1	.0	.0	.0	.0	.0	.0	.0	1.9	3.2	2.5	-1.2
127.0	1.1	-.3	.1	.0	.0	.0	.0	.0	.0	.0	1.8	2.9	2.5	-1.4
128.0	.8	-.3	.1	.0	.0	.0	.0	.0	.0	.0	2.5	3.3	2.4	-1.6
129.0	.5	-.3	.1	.0	.0	.0	.0	.0	.0	.0	4.7	5.2	2.4	-1.9
130.0	.3	-.3	.1	.0	.0	.0	.0	.0	.0	.0	7.0	7.2	2.4	-2.1
140.0	7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.6	.7	6.3
150.0	6.4	-.6	-.2	.0	.0	-.1	-.1	.0	-.1	.0	3.5	9.9	4.3	2.1
160.0	4.6	-.5	-.1	.0	.0	-.1	-.1	.0	-.1	.0	3.1	7.7	4.1	.5
170.0	2.8	-.5	-.1	.0	.0	-.1	-.1	.0	-.1	.0	2.9	5.7	3.8	-.9
180.0	1.3	-.5	-.1	.0	.0	-.1	-.1	.0	-.1	.0	2.7	3.9	3.5	-2.2
190.0	.0	-.5	-.1	.0	.0	-.1	-.1	.0	-.1	.0	2.4	2.4	3.2	-3.3
200.0	-1.2	-.4	-.1	.0	.0	-.1	-.1	.0	-.1	.0	2.2	1.1	3.0	-4.2
210.0	-2.1	-.4	-.1	.0	.0	-.1	.0	.0	-.1	.0	2.0	-.1	2.8	-4.9
220.0	-2.9	-.4	-.1	.0	.0	-.1	.0	.0	-.1	.0	1.9	-1.0	2.6	-5.5
230.0	-3.5	-.4	-.1	.0	.0	.0	.0	.0	-.1	.0	1.7	-1.8	2.4	-5.9
240.0	-4.0	-.4	-.1	.0	.0	.0	.0	.0	-.1	.0	1.6	-2.5	2.2	-6.2
250.0	-4.4	-.3	-.1	.0	.0	.0	.0	.0	-.1	.0	1.4	-3.0	2.0	-6.3
260.0	-4.6	-.3	.0	.0	.0	.0	.0	.0	-.1	.0	1.3	-3.3	1.8	-6.4
270.0	-4.7	-.3	.0	.0	.0	.0	.0	.0	-.1	.0	1.1	-3.6	1.6	-6.3
280.0	-4.7	-.3	.0	.0	.0	.0	.0	.0	-.1	.0	1.0	-3.7	1.5	-6.2
290.0	-4.7	-.3	.0	.0	.0	.0	.0	.0	-.1	.0	.9	-3.8	1.3	-6.0
300.0	-4.5	-.3	.0	.0	.0	.0	.0	.0	-.1	.0	.8	-3.7	1.2	-5.7
310.0	-4.3	-.2	.0	.0	.0	.0	.0	.0	-.1	.1	.7	-3.6	1.0	-5.3
320.0	-4.0	-.2	.0	.0	.0	.0	.0	.0	-.1	.1	.6	-3.4	.9	-4.8

MASS PROPERTIES

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	2.4	.0	-.2	.0	.0	.0	.0	.0	.0	.0	1.9	4.4	2.4	.0
101.0	2.4	.0	-.2	.0	.0	.0	.0	.0	.0	.0	1.9	4.3	2.4	.1
102.0	2.4	.0	-.2	.0	.0	.0	.0	.0	.0	.0	1.9	4.3	2.3	.1
103.0	2.4	.0	-.2	.0	.0	.0	.0	.0	.0	.0	1.9	4.3	2.3	.1
104.0	2.4	.0	-.2	.0	.0	.0	.0	.0	.0	.0	1.9	4.3	2.3	.1
105.0	2.3	.0	-.2	.0	.0	.0	.0	.0	.0	.0	1.9	4.2	2.3	.0
106.0	2.3	.0	-.2	.0	.0	.0	.0	.0	.0	.0	1.9	4.2	2.3	.1
107.0	2.3	.0	-.2	.0	.0	.0	.0	.0	.0	.0	1.8	4.2	2.3	.1
108.0	2.4	.0	-.2	.0	.0	.0	.0	.0	.0	.0	1.8	4.2	2.3	.1
109.0	2.4	.0	-.2	.0	.0	.0	.0	.0	.0	.0	1.8	4.2	2.3	.1
110.0	2.3	.0	-.2	.0	.0	.0	.0	.0	.0	.0	1.9	4.2	2.2	.1
111.0	2.5	.0	-.2	.0	.0	.0	.0	.0	.0	.0	1.7	4.2	2.3	.2
112.0	2.6	.1	-.1	.0	.0	.0	.0	.0	.0	.0	1.5	4.2	2.4	.3
113.0	2.7	.1	-.1	.0	.0	.0	.0	.0	.0	.0	1.5	4.2	2.4	.3
114.0	2.7	.1	-.1	.0	.0	.0	.0	.0	.0	.0	1.6	4.4	2.2	.5
115.0	2.8	.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.7	4.5	2.1	.7
116.0	3.0	.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.6	4.6	2.3	.8
117.0	3.1	.2	-.1	.0	.0	.0	.0	.0	.0	.0	1.7	4.8	2.4	.7
118.0	3.1	.3	-.1	.0	.0	.0	.0	.0	.0	.0	1.8	4.9	2.3	.8
119.0	3.0	.3	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.9	2.2	.8
120.0	2.8	.3	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.7	2.3	.5
121.0	2.6	.3	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.5	2.3	.3
122.0	2.4	.3	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.2	2.4	-.1
123.0	2.1	.3	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	4.0	2.4	-.3
124.0	1.9	.3	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	3.7	2.5	-.6
125.0	1.6	.3	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	3.4	2.5	-.9
126.0	1.3	.3	-.1	.0	.0	.0	.0	.0	.0	.0	1.9	3.2	2.5	-1.2
127.0	1.1	.3	-.1	.0	.0	.0	.0	.0	.0	.0	1.8	2.9	2.5	-1.4
128.0	.8	.3	-.1	.0	.0	.0	.0	.0	.0	.0	2.5	3.3	2.4	-1.6
129.0	.5	.3	-.1	.0	.0	.0	.0	.0	.0	.0	4.7	5.2	2.4	-1.9
130.0	.3	.3	-.1	.0	.0	.0	.0	.0	.0	.0	7.0	7.2	2.4	-2.1
140.0	7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.6	.7	6.3
150.0	6.4	.1	-.3	.0	.0	.0	.0	-.2	.0	-.1	3.5	9.9	4.3	2.1
160.0	4.6	.1	-.3	.0	.0	.0	.0	-.2	.0	-.1	3.1	7.7	4.1	.5
170.0	2.8	.1	-.3	.0	.0	.0	.0	-.1	.0	-.1	2.9	5.7	3.8	-.9
180.0	1.3	.1	-.2	.0	.0	.0	.0	-.1	.0	-.1	2.7	3.9	3.5	-2.2
190.0	.0	.1	-.2	.0	.0	.0	.0	-.1	.0	-.1	2.4	2.4	3.2	-3.3
200.0	-1.2	.1	-.2	.0	.0	.0	.0	-.1	.0	-.1	2.2	1.1	3.0	-4.2
210.0	-2.1	.1	-.2	.0	.0	.0	.0	-.1	.0	-.1	2.0	-.1	2.8	-4.9
220.0	-2.9	.1	-.2	.0	.0	.0	.0	-.1	.0	-.1	1.9	-1.0	2.6	-5.5
230.0	-3.5	.1	-.2	.0	.0	.0	.0	-.1	.0	-.1	1.7	-1.8	2.4	-5.9
240.0	-4.0	.2	-.1	.0	.0	.0	.0	-.1	.0	-.1	1.6	-2.5	2.2	-6.2
250.0	-4.4	.2	-.1	.0	.0	.0	.0	-.1	.0	-.1	1.4	-3.0	2.0	-6.3
260.0	-4.6	.2	-.1	.0	.0	.0	.0	-.1	.0	-.1	1.3	-3.3	1.8	-6.4
270.0	-4.7	.2	-.1	.0	.0	.0	.0	-.1	.0	-.1	1.1	-3.6	1.6	-6.3
280.0	-4.7	.2	-.1	.0	.0	.0	.0	-.1	.0	-.1	1.0	-3.7	1.5	-6.2
290.0	-4.7	.2	-.1	.0	.0	.0	.0	.0	.0	-.1	.9	-3.9	1.3	-6.0
300.0	-4.5	.2	-.1	.0	.0	.0	.0	.0	.0	-.1	.8	-3.7	1.2	-5.7
310.0	-4.3	.2	-.1	.0	.0	.0	.0	.0	.0	-.1	.7	-3.6	1.0	-5.3
320.0	-4.0	.2	-.1	.0	.0	.0	.0	.0	.0	-.1	.6	-3.4	.9	-4.8

MASS PROPERTIES

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-3.6	-.2	.0	.0	.0	.0	.0	.0	-.1	.1	.5	-3.1	.7	-4.3
340.0	-3.2	-.2	.0	.0	.0	.0	.0	.0	-.1	.1	.4	-2.8	.6	-3.8
350.0	-2.7	-.2	.0	.0	.0	.0	.0	.0	-.1	.1	.3	-2.4	.5	-3.2
360.0	-2.2	-.2	.0	.0	.0	.0	.0	.0	-.1	.1	.3	-1.9	.4	-2.6
370.0	-1.7	-.1	.0	.0	.0	.0	.0	.0	-.1	.1	.3	-1.4	.4	-2.1
380.0	-1.2	-.1	.0	.0	.0	.0	.0	.0	-.1	.1	.4	-.8	.4	-1.6
390.0	-.6	-.1	.0	.0	.0	.0	.0	.0	-.1	.1	.4	-.2	.5	-1.1
400.0	.0	-.1	.0	.0	.0	.0	.0	.0	-.1	.1	.7	.7	.6	-.6
410.0	.5	-.1	.0	.0	.0	.0	.0	.0	-.1	.1	1.3	1.8	.7	-.1
420.0	1.0	-.1	.0	.0	.0	.0	.0	.0	-.1	.2	1.4	2.4	.8	.3
430.0	1.5	.0	.0	.0	.0	.0	.0	.0	-.1	.2	1.3	2.8	.9	.6
440.0	1.9	.0	.0	.0	.0	.0	.0	.0	-.1	.2	1.3	3.2	1.0	.9
450.0	2.1	.0	.0	.0	.0	.0	.0	.0	-.1	.2	1.4	3.6	1.1	1.0
460.0	2.2	.0	.1	.0	.0	.0	.0	.0	-.1	.2	1.6	3.9	1.4	.8
470.0	2.2	.0	.1	.0	.0	.0	.0	.0	-.1	.3	1.7	3.9	1.9	.3
480.0	2.5	.1	.0	.0	.0	.0	.0	.0	-.1	.3	1.6	4.1	2.5	.0

MASS PROPERTIES

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-3.6	.2	.0	.0	.0	.0	.0	.0	.0	-.1	.5	-3.1	.7	-4.3
340.0	-3.2	.2	.0	.0	.0	.0	.0	.0	.0	-.1	.4	-2.8	.6	-3.8
350.0	-2.7	.2	.0	.0	.0	.0	.0	.0	.0	-.1	.3	-2.4	.5	-3.2
360.0	-2.2	.2	.0	.0	.0	.0	.0	.0	.1	-.1	.3	-1.9	.4	-2.6
370.0	-1.7	.1	.0	.0	.0	.0	.0	.0	.1	-.1	.3	-1.4	.4	-2.1
380.0	-1.2	.1	.0	.0	.0	.0	.0	.0	.1	-.1	.4	-.8	.4	-1.6
390.0	-.6	.1	.0	.0	.0	.0	.0	.0	.1	-.1	.4	-.2	.5	-1.1
400.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	-.1	.7	.7	.6	-.6
410.0	.5	.1	.0	.0	.0	.0	.0	.0	.1	-.1	1.3	1.8	.7	-.1
420.0	1.0	.1	.0	.0	.0	.0	.0	.0	.1	-.1	1.4	2.4	.8	.3
430.0	1.6	.1	.1	.0	.0	.0	.0	.0	.1	-.2	1.3	2.8	.9	.6
440.0	1.9	.1	.1	.0	.0	.0	.0	.0	.1	-.2	1.3	3.2	1.0	.9
450.0	2.1	.1	.1	.0	.0	.0	.0	.0	.1	-.2	1.4	3.6	1.1	1.0
460.0	2.2	.1	.1	.0	.0	.0	.0	.0	.1	-.2	1.6	3.9	1.4	.8
470.0	2.2	.1	.1	.0	.0	.0	.0	.1	.1	-.2	1.7	3.9	1.9	.3
480.0	2.5	.1	.1	.0	.0	.0	.0	.1	.1	-.3	1.6	4.1	2.5	.0

GN/C

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	-90.0	.0	-90.0
1.0	-.3	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.4	-.7
2.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.5	4.9	.4	4.0
3.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.7	6.2	.6	5.0
4.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	6.7	.6	5.3
5.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.8	6.9	.7	5.5
6.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.8	7.0	.7	5.5
7.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.8	7.0	.7	5.5
8.0	6.6	.0	.0	.0	.0	.0	.0	.0	.0	.8	7.3	.5	6.0
9.0	7.7	.0	.0	.0	.0	.1	.0	.0	.0	.9	8.6	.5	7.2
10.0	9.0	.0	.0	.0	.0	.2	.0	.0	.0	.7	9.7	.6	8.4
11.0	9.6	.0	.0	-.1	.0	.2	.0	.0	.0	.8	10.3	.8	8.8
12.0	9.7	.0	.0	-.1	.0	.3	.0	.0	.0	.8	10.5	.9	8.8
13.0	9.5	.0	.0	-.1	.0	.3	.0	.0	.0	.8	10.3	.9	8.6
14.0	9.2	.0	.0	-.1	.0	.3	.0	.0	.0	.8	10.0	1.0	8.2
15.0	8.7	.0	.0	-.1	.0	.3	.0	.0	.0	.8	9.5	.9	7.8
16.0	8.3	.0	.0	-.1	.0	.3	.0	.0	.0	.7	9.0	.9	7.3
17.0	7.6	.0	.0	.0	.1	.3	.0	.0	.0	.7	8.3	1.2	6.4
18.0	6.2	.0	.0	.0	.1	.3	.0	.0	.0	.8	7.0	1.4	4.8
19.0	4.7	.0	.0	.0	.1	.3	.0	.0	.0	.8	5.4	1.2	3.5
20.0	3.5	.0	.0	.0	.1	.3	.0	.0	.0	.7	4.2	1.3	2.2
21.0	2.6	.0	.0	.1	.1	.4	.0	.0	.0	.8	3.4	1.6	1.0
22.0	1.9	.0	.0	.1	.1	.4	.0	.0	.0	1.0	2.9	1.6	.3
23.0	1.2	.0	.0	.1	.1	.4	.0	.0	.0	1.2	2.4	1.5	-.3
24.0	.2	.0	.0	.1	.1	.4	.0	.0	.0	1.4	1.6	1.1	-.9
25.0	-.6	.1	.0	.1	.1	.3	.0	.0	.0	1.2	.6	1.1	-1.7
26.0	-1.3	.1	.1	.1	.1	.3	.0	.0	.0	1.1	-.2	1.2	-2.5
27.0	-1.8	.2	.1	.1	.0	.3	.0	.0	.0	1.0	-.8	1.3	-3.2
28.0	-2.0	.2	.1	.1	.0	.3	.0	.0	.0	.9	-1.2	1.6	-3.7
29.0	-2.2	.3	.2	.1	.0	.2	.0	.0	.0	.9	-1.3	1.7	-4.0
30.0	-2.4	.3	.2	.1	.0	.2	.0	.0	.0	.9	-1.5	1.6	-4.0
31.0	-2.5	.4	.2	.0	.0	.2	.0	.0	.0	.9	-1.7	1.3	-3.8
32.0	-2.6	.4	.2	.0	.0	.2	.0	.0	.0	.9	-1.7	1.1	-3.7
33.0	-2.6	.4	.2	.0	.0	.2	.0	.0	.0	.9	-1.7	1.0	-3.6
34.0	-2.7	.4	.2	.0	.0	.2	.0	.0	.0	.9	-1.8	.9	-3.6
35.0	-2.7	.4	.2	.0	.0	.1	.0	.0	.0	.9	-1.9	.9	-3.6
36.0	-2.9	.4	.2	.0	.0	.1	.0	.0	.0	.9	-2.0	.9	-3.7
37.0	-3.0	.4	.2	.0	.0	.1	.0	.0	.0	.9	-2.1	.9	-3.8
38.0	-3.0	.4	.2	.0	.0	.1	.0	.0	.0	.8	-2.2	.8	-3.9
39.0	-3.1	.4	.2	.0	.0	.1	.0	.0	.0	.8	-2.2	.8	-3.9
40.0	-3.1	.3	.1	.0	.0	.1	.0	.0	.0	.8	-2.3	.7	-3.8
41.0	-3.1	.3	.1	.0	.0	.1	.0	.0	.0	.7	-2.4	.7	-3.8
42.0	-3.2	.3	.1	.0	.0	.1	.0	.0	.0	.7	-2.6	.7	-3.9
43.0	-3.3	.2	.1	.0	.0	.1	.0	.0	.0	.7	-2.7	.7	-4.0
44.0	-3.5	.2	.1	.0	.0	.1	.0	.0	.0	.7	-2.8	.6	-4.1
45.0	-3.5	.2	.1	.0	.0	.1	.0	.0	.0	.7	-2.9	.6	-4.2
46.0	-3.6	.2	.1	.0	.0	.1	.0	.0	.0	.7	-2.9	.6	-4.2
47.0	-3.6	.2	.1	.0	.0	.1	.0	.0	.0	.7	-2.9	.7	-4.3
48.0	-3.6	.2	.1	.0	.0	.1	.0	.0	.0	.7	-2.9	.7	-4.3
49.0	-3.6	.2	.1	.0	.0	.1	.0	.0	.0	.7	-2.9	.7	-4.3

GN/C

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+PSS NOM+RSS	-RSS	NOM-RSS
.0	-90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 -90.0	.0	-90.0
1.0	-.7	.0	.0	.0	.0	.0	.0	.0	.0	.4 .1	.4	-.7
2.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.5 4.9	.4	4.0
3.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.7 6.2	.6	5.0
4.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.7 6.7	.6	5.3
5.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.8 6.9	.7	5.5
6.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.8 7.0	.7	5.5
7.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.8 7.0	.7	5.5
8.0	6.6	.0	.0	.0	.0	.0	.0	.0	.0	.8 7.3	.5	6.0
9.0	7.7	.0	.0	.0	.0	-.1	.0	.0	.0	.9 8.6	.5	7.2
10.0	9.0	.0	.0	.0	.0	-.2	.0	.0	.0	.7 9.7	.6	8.4
11.0	9.6	.0	.0	.1	.0	-.2	.0	.0	.0	.8 10.3	.8	8.8
12.0	9.7	.0	.0	.1	.0	-.3	.0	.0	.0	.8 10.5	.9	8.8
13.0	9.5	.0	.0	.1	.0	-.3	.0	.0	.0	.8 10.3	.9	8.6
14.0	9.2	.0	.0	.1	.0	-.3	.0	.0	.0	.8 10.0	1.0	8.2
15.0	8.7	.0	.0	.1	.0	-.3	.0	.0	.0	.8 9.5	.9	7.8
16.0	8.3	.0	.0	.1	.0	-.3	.0	.0	.0	.7 9.0	.9	7.3
17.0	7.6	.0	.0	.0	-.1	-.3	.0	.0	.0	.7 8.3	1.2	6.4
18.0	6.2	.0	.0	.0	-.1	-.3	.0	.0	.0	.8 7.0	1.4	4.8
19.0	4.7	.0	.0	.0	-.1	-.3	.0	.0	.0	.8 5.4	1.2	3.5
20.0	3.5	.0	.0	.0	-.1	-.3	.0	.0	.0	.7 4.2	1.3	2.2
21.0	2.6	.0	.0	.0	.0	-.3	.0	.0	.0	.8 3.4	1.6	1.0
22.0	1.9	.0	.0	.0	.0	-.3	.0	.0	.0	1.0 2.9	1.6	.3
23.0	1.2	.0	.0	-.1	.0	-.3	.0	.0	.0	1.2 2.4	1.5	-.3
24.0	.2	.0	.0	-.1	.0	-.3	.0	.0	.0	1.4 1.6	1.1	-.9
25.0	-.6	.0	.0	-.1	.0	-.3	.0	.0	.0	1.2 .6	1.1	-1.7
26.0	-1.3	-.1	.0	-.1	.0	-.2	.0	.0	.0	1.1 -.2	1.2	-2.5
27.0	-1.8	-.2	-.1	-.1	.0	-.2	.0	.0	.0	1.0 -.8	1.3	-3.2
28.0	-2.0	-.2	-.1	.0	.0	-.2	.0	.0	.0	.9 -1.2	1.6	-3.7
29.0	-2.2	-.3	-.2	.0	.0	-.2	.0	.0	.0	.9 -1.3	1.7	-4.0
30.0	-2.4	-.3	-.2	.0	.0	-.2	.0	.0	.0	.9 -1.5	1.6	-4.0
31.0	-2.5	-.3	-.2	.0	.0	-.2	.0	.0	.0	.9 -1.7	1.3	-3.8
32.0	-2.6	-.4	-.2	.0	.0	-.1	.0	.0	.0	.9 -1.7	1.1	-3.7
33.0	-2.6	-.4	-.2	.0	.0	-.1	.0	.0	.0	.9 -1.7	1.0	-3.6
34.0	-2.7	-.4	-.2	.0	.0	-.1	.0	.0	.0	.9 -1.8	.9	-3.6
35.0	-2.7	-.4	-.2	.0	.0	-.1	.0	.0	.0	.9 -1.9	.9	-3.6
36.0	-2.9	-.4	-.2	.0	.0	-.1	.0	.0	.0	.9 -2.0	.9	-3.7
37.0	-3.0	-.4	-.2	.0	.0	-.1	.0	.0	.0	.9 -2.1	.9	-3.8
38.0	-3.0	-.4	-.2	.0	.0	-.1	.0	.0	.0	.8 -2.2	.8	-3.9
39.0	-3.1	-.4	-.2	.0	.0	-.1	.0	.0	.0	.8 -2.2	.8	-3.9
40.0	-3.1	-.4	-.1	.0	.0	-.1	.0	.0	.0	.8 -2.3	.7	-3.8
41.0	-3.1	-.3	-.1	.0	.0	-.1	.0	.0	.0	.7 -2.4	.7	-3.8
42.0	-3.2	-.3	-.1	.0	.0	-.1	.0	.0	.0	.7 -2.6	.7	-3.9
43.0	-3.3	-.2	-.1	.0	.0	-.1	.0	.0	.0	.7 -2.7	.7	-4.0
44.0	-3.5	-.2	-.1	.0	.0	-.1	.0	.0	.0	.7 -2.8	.6	-4.1
45.0	-3.5	-.2	-.1	.0	.0	-.1	.0	.0	.0	.7 -2.9	.6	-4.2
46.0	-3.6	-.2	-.1	.0	.0	-.1	.0	.0	.0	.7 -2.9	.6	-4.2
47.0	-3.6	-.2	-.1	.0	.0	-.1	.0	.0	.0	.7 -2.9	.7	-4.3
48.0	-3.6	-.2	-.1	.0	.0	-.1	.0	.0	.0	.7 -2.9	.7	-4.3
49.0	-3.6	-.2	-.1	.0	.0	-.1	.0	.0	.0	.7 -2.9	.7	-4.3

GN/C

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	-3.6	.2	.1	.0	.0	.1	.0	.0	.0	.7	-2.9	.7	-4.3
51.0	-3.6	.2	.1	.0	.0	.1	.0	.0	.0	.7	-2.9	.7	-4.3
52.0	-3.6	.2	.1	.0	.0	.1	.0	.0	.0	.7	-2.9	.7	-4.3
53.0	-3.6	.2	.1	.0	.0	.1	.0	.0	.0	.7	-2.9	.7	-4.3
54.0	-3.6	.2	.1	.0	.0	.1	.0	.0	.0	.7	-2.9	.8	-4.3
55.0	-3.5	.1	.1	.0	.0	.1	.0	.0	.0	.7	-2.8	.8	-4.3
56.0	-3.5	.1	.1	.0	.0	.1	.0	.0	.0	.7	-2.8	.8	-4.3
57.0	-3.6	.1	.1	.0	.0	.1	.0	.0	.0	.7	-2.8	.7	-4.3
58.0	-3.6	.1	.1	.0	.0	.1	.0	.0	.0	.7	-2.8	.7	-4.3
59.0	-3.6	.1	.1	.0	.0	.1	.0	.0	.0	.8	-2.8	.7	-4.3
60.0	-3.6	.1	.1	.0	.0	.1	.0	.0	.0	.9	-2.7	.8	-4.3
61.0	-3.4	.1	.1	.0	.0	.0	.0	.0	.0	.9	-2.5	.9	-4.3
62.0	-3.2	.1	.1	.0	.0	.0	.0	.0	.0	1.0	-2.2	1.1	-4.3
63.0	-3.0	.1	.1	.0	.0	.0	.0	.0	.0	1.2	-1.8	1.2	-4.2
64.0	-2.7	.1	.1	.0	.0	.0	.0	.0	.0	1.3	-1.5	1.3	-4.1
65.0	-2.4	.1	.1	.0	.0	.0	.0	.0	.0	1.3	-1.1	1.5	-3.9
66.0	-2.1	.0	.1	.0	.0	.0	.0	.0	.0	1.3	-.8	1.6	-3.7
67.0	-1.7	.0	.1	.0	.0	.0	.0	.0	.0	1.3	-.4	1.6	-3.4
68.0	-1.4	.0	.1	.0	.0	.0	.0	.0	.0	1.3	-.1	1.7	-3.1
69.0	-1.1	-.1	.1	.0	.0	.0	.0	.0	.0	1.3	.3	1.7	-2.7
70.0	-.8	-.1	.1	.0	.0	.1	.0	.0	.0	1.3	.6	1.6	-2.4
71.0	-.5	-.2	.1	.0	.0	.1	.0	.0	.0	1.4	.9	1.6	-2.1
72.0	-.2	-.2	.1	.0	.0	.1	.0	.0	.0	1.5	1.3	1.6	-1.9
73.0	.1	-.2	.1	.1	.0	.1	.0	.0	.0	1.7	1.7	1.7	-1.6
74.0	.4	-.3	.0	.1	.0	.1	.0	.0	.0	1.7	2.2	1.9	-1.5
75.0	.8	-.3	.0	.1	.0	.1	.0	.0	.0	1.8	2.6	2.0	-1.2
76.0	1.1	-.4	.0	.1	.0	.1	.0	.0	.0	2.0	3.1	2.1	-1.0
77.0	1.5	-.4	.0	.1	.0	.1	.0	.0	.0	2.0	3.5	2.2	-.7
78.0	1.9	-.5	-.1	.1	.0	.1	.0	.0	.0	1.8	3.7	2.4	-.5
79.0	2.2	-.6	-.2	.1	.0	.1	.0	.0	.0	1.6	3.8	2.5	-.3
80.0	2.3	-.7	-.2	.1	.0	.1	.0	.0	.0	1.6	3.9	2.3	.0
81.0	2.3	-.7	-.3	.1	.0	.1	.0	.0	.0	1.7	4.0	2.1	.2
82.0	2.4	-.8	-.3	.1	.0	.1	.0	.0	.0	1.8	4.1	2.1	.3
83.0	2.4	-.9	-.4	.1	.0	.1	.0	.0	.0	1.9	4.2	2.1	.2
84.0	2.3	-.9	-.5	.1	-.1	.1	.0	.0	.0	2.1	4.4	2.2	.1
85.0	2.3	-1.0	-.6	.1	-.1	.1	.0	.0	.0	2.1	4.4	2.4	.0
86.0	2.3	-1.1	-.7	.1	-.1	.0	.0	-.1	.0	2.1	4.5	2.5	-.2
87.0	2.4	-1.1	-.7	.1	-.1	.0	.0	-.1	.0	2.1	4.5	2.7	-.3
88.0	2.3	-1.1	-.8	.1	-.1	.0	.0	-.1	.0	2.1	4.4	2.7	-.4
89.0	2.3	-1.1	-.9	.1	-.1	.0	.0	-.1	.0	2.2	4.5	2.8	-.4
90.0	2.4	-1.1	-.8	.1	-.1	.0	.0	-.1	.0	2.2	4.5	2.8	-.4
91.0	2.2	-.9	-.7	.1	-.1	.1	.0	-.1	.0	2.5	4.7	2.4	-.2
92.0	2.5	-1.2	-.8	.1	-.1	.0	.0	-.1	.0	2.2	4.7	3.0	-.5
93.0	2.5	-1.0	-.7	.1	-.1	.1	.0	-.1	.0	2.1	4.6	2.8	-.3
94.0	2.5	-1.0	-.7	.1	-.1	.0	.0	-.1	.0	2.1	4.6	2.8	-.3
95.0	2.6	-1.0	-.7	.1	-.1	.1	.0	-.1	.0	2.0	4.6	2.7	-.2
96.0	2.5	-1.0	-.7	.1	-.1	.1	.0	-.1	.0	2.0	4.6	2.6	-.1
97.0	2.5	-.9	-.7	.1	-.1	.1	.0	-.1	.0	2.0	4.5	2.5	.0
98.0	2.5	-.9	-.7	.1	-.1	.1	.0	-.1	.0	2.0	4.5	2.5	.0
99.0	2.5	-.9	-.7	.1	-.1	.0	.0	-.1	.0	2.0	4.4	2.4	.0

GN/C

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	-3.6	-.2	-.1	.0	.0	-.1	.0	.0	.0	.7	-2.9	.7	-4.3
51.0	-3.6	-.2	-.1	.0	.0	-.1	.0	.0	.0	.7	-2.9	.7	-4.3
52.0	-3.6	-.2	-.1	.0	.0	-.1	.0	.0	.0	.7	-2.9	.7	-4.3
53.0	-3.6	-.2	-.1	.0	.0	-.1	.0	.0	.0	.7	-2.9	.7	-4.3
54.0	-3.6	-.2	-.1	.0	.0	-.1	.0	.0	.0	.7	-2.9	.8	-4.3
55.0	-3.5	-.1	-.1	.0	.0	-.1	.0	.0	.0	.7	-2.8	.8	-4.3
56.0	-3.5	-.1	-.1	.0	.0	-.1	.0	.0	.0	.7	-2.8	.8	-4.3
57.0	-3.6	-.1	-.1	.0	.0	-.1	.0	.0	.0	.7	-2.8	.7	-4.3
58.0	-3.6	-.1	-.1	.0	.0	-.1	.0	.0	.0	.7	-2.8	.7	-4.3
59.0	-3.6	-.1	-.1	.0	.0	-.1	.0	.0	.0	.8	-2.8	.7	-4.3
60.0	-3.6	-.1	-.1	.0	.0	-.1	.0	.0	.0	.9	-2.7	.8	-4.3
61.0	-3.4	-.1	-.1	.0	.0	-.1	.0	.0	.0	.9	-2.5	.9	-4.3
62.0	-3.2	-.1	-.1	.0	.0	-.1	.0	.0	.0	1.0	-2.2	1.1	-4.3
63.0	-3.0	-.1	-.1	.0	.0	-.1	.0	.0	.0	1.2	-1.8	1.2	-4.2
64.0	-2.7	-.1	-.1	.0	.0	-.1	.0	.0	.0	1.3	-1.5	1.3	-4.1
65.0	-2.4	-.1	-.1	.0	.0	-.1	.0	.0	.0	1.3	-1.1	1.5	-3.9
66.0	-2.1	.0	-.1	.0	.0	-.1	.0	.0	.0	1.3	-.8	1.6	-3.7
67.0	-1.7	.0	-.1	.0	.0	-.1	.0	.0	.0	1.3	-.4	1.6	-3.4
68.0	-1.4	.0	-.1	.0	.0	-.1	.0	.0	.0	1.3	-.1	1.7	-3.1
69.0	-1.1	.0	-.1	.0	.0	-.1	.0	.0	.0	1.3	.3	1.7	-2.7
70.0	-.8	.1	-.1	-.1	.0	-.1	.0	.0	.0	1.3	.6	1.6	-2.4
71.0	-.5	.1	-.1	-.1	.0	-.1	.0	.0	.0	1.4	.9	1.6	-2.1
72.0	-.2	.2	-.1	-.1	.0	-.1	.0	.0	.0	1.5	1.3	1.6	-1.9
73.0	.1	.2	-.1	-.1	.0	-.1	.0	.0	.0	1.7	1.7	1.7	-1.6
74.0	.4	.2	-.1	-.1	.0	-.1	.0	.0	.0	1.7	2.2	1.9	-1.5
75.0	.8	.3	.0	-.1	.0	-.1	.0	.0	.0	1.8	2.6	2.0	-1.2
76.0	1.1	.3	.0	-.1	.0	-.2	.0	.0	.0	2.0	3.1	2.1	-1.0
77.0	1.5	.4	.0	-.1	.0	-.2	.0	.0	.0	2.0	3.5	2.2	-.7
78.0	1.9	.4	.0	-.1	.0	-.2	.0	.0	.0	1.8	3.7	2.4	-.5
79.0	2.2	.5	.1	-.1	.0	-.2	.0	.0	.0	1.6	3.8	2.5	-.3
80.0	2.3	.6	.2	-.1	.0	-.2	.0	.0	.0	1.6	3.9	2.3	.0
81.0	2.3	.7	.2	-.2	.0	-.2	.0	.0	.0	1.7	4.0	2.1	.2
82.0	2.4	.7	.3	-.2	.0	-.2	.0	.0	.0	1.8	4.1	2.1	.3
83.0	2.4	.8	.3	-.2	.0	-.3	.0	.0	.0	1.9	4.2	2.1	.2
84.0	2.3	.8	.4	-.2	.0	-.3	.0	.0	.0	2.1	4.4	2.2	.1
85.0	2.3	.9	.5	-.2	.0	-.3	.0	.0	.0	2.1	4.4	2.4	.0
86.0	2.3	.9	.6	-.2	.0	-.3	.0	.0	.0	2.1	4.5	2.5	-.2
87.0	2.4	1.0	.6	-.2	.0	-.3	.0	.0	.0	2.1	4.5	2.7	-.3
88.0	2.3	1.0	.7	-.2	.0	-.3	.0	.0	.0	2.1	4.4	2.7	-.4
89.0	2.3	1.0	.7	-.2	.0	-.3	.0	.0	.0	2.2	4.5	2.8	-.4
90.0	2.4	.9	.7	-.2	.0	-.3	.0	.0	.0	2.2	4.5	2.8	-.4
91.0	2.2	1.1	.7	-.2	.0	-.2	.0	.0	.0	2.5	4.7	2.4	-.2
92.0	2.5	1.0	.7	-.2	.0	-.3	.0	.0	.0	2.2	4.7	3.0	-.5
93.0	2.5	.9	.7	-.2	.0	-.3	.0	.0	.0	2.1	4.6	2.8	-.3
94.0	2.5	.9	.7	-.2	.0	-.2	.0	.0	.0	2.1	4.6	2.8	-.3
95.0	2.6	.9	.7	-.2	.0	-.3	.0	.0	.0	2.0	4.6	2.7	-.2
96.0	2.5	.9	.7	-.2	.0	-.3	.0	.0	.0	2.0	4.6	2.6	-.1
97.0	2.5	.9	.7	-.2	.0	-.2	.0	.0	.0	2.0	4.5	2.5	.0
98.0	2.5	.9	.7	-.2	.0	-.2	.0	.0	.0	2.0	4.5	2.5	.0
99.0	2.5	.9	.7	-.2	.0	-.2	.0	.0	.0	2.0	4.4	2.4	.0

GN/C

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	2.4	-.9	-.7	.1	-.1	.0	.0	-.1	.0	1.9	4.4	2.4	.0
101.0	2.4	-.9	-.7	.1	-.1	.0	.0	.0	.0	1.9	4.3	2.4	.1
102.0	2.4	-.9	-.7	.1	-.1	.0	.0	.0	.0	1.9	4.3	2.3	.1
103.0	2.4	-.8	-.6	.1	-.1	.0	.0	.0	.0	1.9	4.3	2.3	.1
104.0	2.4	-.8	-.6	.1	-.1	.0	.0	.0	.0	1.9	4.3	2.3	.1
105.0	2.3	-.8	-.6	.1	-.1	.0	.0	.0	.0	1.9	4.2	2.3	.0
106.0	2.3	-.8	-.6	.1	-.1	.0	.0	.0	.0	1.9	4.2	2.3	.1
107.0	2.3	-.8	-.6	.1	-.1	.0	.0	.0	.0	1.8	4.2	2.3	.1
108.0	2.4	-.8	-.6	.1	-.1	.0	.0	.0	.0	1.8	4.2	2.3	.1
109.0	2.4	-.8	-.6	.1	-.1	.0	.0	.0	.0	1.8	4.2	2.3	.1
110.0	2.3	-.8	-.6	.1	-.1	.0	.0	.0	.0	1.9	4.2	2.2	.1
111.0	2.5	-.7	-.5	.1	-.1	.0	.0	.0	.0	1.7	4.2	2.3	.2
112.0	2.6	-.7	-.5	.0	.0	.0	.0	.0	.0	1.5	4.2	2.4	.3
113.0	2.7	-.6	-.5	.0	-.1	.0	.0	.0	.0	1.5	4.2	2.4	.3
114.0	2.7	-.5	-.5	.0	-.1	.0	.0	.0	.0	1.6	4.4	2.2	.5
115.0	2.8	-.4	-.4	-.1	.0	.0	.0	.0	.0	1.7	4.5	2.1	.7
116.0	3.0	-.3	-.3	-.1	.0	-.1	.0	.0	.0	1.6	4.6	2.3	.8
117.0	3.1	-.3	-.3	-.1	.0	-.1	.0	.0	.0	1.7	4.8	2.4	.7
118.0	3.1	-.2	-.2	-.1	.0	-.1	.0	.0	.0	1.8	4.9	2.3	.8
119.0	3.0	-.1	-.2	-.2	.0	-.1	.0	.0	.0	1.9	4.9	2.2	.8
120.0	2.8	-.1	-.2	-.2	.0	-.2	.0	.0	.0	1.9	4.7	2.3	.5
121.0	2.6	-.1	-.2	-.2	.0	-.2	.0	.0	.0	1.9	4.5	2.3	.3
122.0	2.4	-.1	-.2	-.2	.0	-.2	.0	.0	.0	1.9	4.2	2.4	-.1
123.0	2.1	-.1	-.2	-.2	.0	-.1	.0	.0	.0	1.9	4.0	2.4	-.3
124.0	1.9	-.1	-.2	-.2	.0	-.1	.0	.0	.0	1.9	3.7	2.5	-.6
125.0	1.6	-.1	-.2	-.2	.0	-.1	.0	.0	.0	1.9	3.4	2.5	-.9
126.0	1.3	-.2	-.2	-.2	.0	-.1	.0	.0	.0	1.9	3.2	2.5	-1.2
127.0	1.1	-.2	-.2	-.2	.0	-.1	.0	.0	.0	1.8	2.9	2.5	-1.4
128.0	.8	-.1	-.2	-.2	.0	-.1	.0	.0	.0	2.5	3.3	2.4	-1.6
129.0	.5	-.1	-.2	-.2	.0	-.1	.0	.0	.0	4.7	5.2	2.4	-1.9
130.0	.3	-.2	-.2	-.2	.0	-.1	.0	.0	.0	7.0	7.2	2.4	-2.1
140.0	7.0	-.3	.0	.0	.0	.0	.0	.0	.0	1.6	8.6	.7	6.3
150.0	6.4	-1.7	-1.3	.2	-.2	.7	-.1	-.1	.0	3.5	9.9	4.3	2.1
160.0	4.6	-1.5	-1.2	.2	-.1	.6	-.1	-.1	.0	3.1	7.7	4.1	.5
170.0	2.8	-1.4	-1.1	.2	-.1	.6	-.1	-.1	.0	2.9	5.7	3.8	-.9
180.0	1.3	-1.3	-1.0	.2	-.1	.5	-.1	-.1	.0	2.7	3.9	3.5	-2.2
190.0	.0	-1.2	-.9	.2	-.1	.5	-.1	-.1	.0	2.4	2.4	3.2	-3.3
200.0	-1.2	-1.1	-.8	.1	-.1	.4	.0	-.1	.0	2.2	1.1	3.0	-4.2
210.0	-2.1	-1.0	-.7	.1	-.1	.4	.0	-.1	.0	2.0	-.1	2.8	-4.9
220.0	-2.9	-.9	-.7	.1	-.1	.4	.0	-.1	.0	1.9	-1.0	2.6	-5.5
230.0	-3.5	-.8	-.6	.1	-.1	.3	.0	.0	.0	1.7	-1.8	2.4	-5.9
240.0	-4.0	-.7	-.6	.1	-.1	.3	.0	.0	.0	1.6	-2.5	2.2	-6.2
250.0	-4.4	-.7	-.5	.1	-.1	.3	.0	.0	.0	1.4	-3.0	2.0	-6.3
260.0	-4.6	-.6	-.5	.1	-.1	.2	.0	.0	.0	1.3	-3.3	1.8	-6.4
270.0	-4.7	-.5	-.4	.1	-.1	.2	.0	.0	.0	1.1	-3.6	1.6	-6.3
280.0	-4.7	-.5	-.4	.1	.0	.2	.0	.0	.0	1.0	-3.7	1.5	-6.2
290.0	-4.7	-.4	-.3	.1	.0	.2	.0	.0	.0	.9	-3.8	1.3	-6.0
300.0	-4.5	-.4	-.3	.0	.0	.1	.0	.0	.0	.8	-3.7	1.2	-5.7
310.0	-4.3	-.3	-.2	.0	.0	.1	.0	.0	.0	.7	-3.6	1.0	-5.3
320.0	-4.0	-.2	-.2	.0	.0	.1	.0	.0	.0	.6	-3.4	.9	-4.8

GN/C

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	2.4	.9	.7	-.2	.0	-.2	.0	.0	.0	1.9	4.4	2.4	.0
101.0	2.4	.9	.6	-.2	.0	-.2	.0	.0	.0	1.9	4.3	2.4	.1
102.0	2.4	.8	.6	-.1	.0	-.2	.0	.0	.0	1.9	4.3	2.3	.1
103.0	2.4	.8	.6	-.1	.0	-.2	.0	.0	.0	1.9	4.3	2.3	.1
104.0	2.4	.8	.6	-.1	.0	-.2	.0	.0	.0	1.9	4.3	2.3	.1
105.0	2.3	.8	.6	-.1	.0	-.2	.0	.0	.0	1.9	4.2	2.3	.0
106.0	2.3	.8	.6	-.1	.0	-.2	.0	.0	.0	1.9	4.2	2.3	.1
107.0	2.3	.8	.6	-.1	.0	-.2	.0	.0	.0	1.8	4.2	2.3	.1
108.0	2.4	.8	.6	-.1	.0	-.2	.0	.0	.0	1.8	4.2	2.3	.1
109.0	2.4	.8	.6	-.1	.0	-.2	.0	.0	.0	1.8	4.2	2.3	.1
110.0	2.3	.7	.6	-.1	.0	-.2	.0	.0	.0	1.9	4.2	2.2	.1
111.0	2.5	.7	.5	-.1	.0	-.2	.0	.0	.0	1.7	4.2	2.3	.2
112.0	2.6	.6	.5	-.1	.0	-.1	.0	.0	.0	1.5	4.2	2.4	.3
113.0	2.7	.6	.5	.0	.0	-.1	.0	.0	.0	1.5	4.2	2.4	.3
114.0	2.7	.6	.5	.0	.0	-.1	.0	.0	.0	1.6	4.4	2.2	.5
115.0	2.8	.5	.4	.0	.0	.0	.0	.0	.0	1.7	4.5	2.1	.7
116.0	3.0	.4	.3	.1	.0	.0	.0	.0	.0	1.6	4.6	2.3	.8
117.0	3.1	.3	.3	.1	.0	.0	.0	.0	.0	1.7	4.8	2.4	.7
118.0	3.1	.3	.3	.1	.0	.1	.0	.0	.0	1.8	4.9	2.3	.8
119.0	3.0	.3	.3	.2	.0	.1	.0	.0	.0	1.9	4.9	2.2	.8
120.0	2.8	.2	.2	.2	.0	.1	.0	.0	.0	1.9	4.7	2.3	.5
121.0	2.6	.1	.2	.2	.0	.1	.0	.0	.0	1.9	4.5	2.3	.3
122.0	2.4	.1	.2	.2	.0	.1	.0	.0	.0	1.9	4.2	2.4	-.1
123.0	2.1	.1	.2	.2	.0	.1	.0	.0	.0	1.9	4.0	2.4	-.3
124.0	1.9	.1	.2	.2	.0	.1	.0	.0	.0	1.9	3.7	2.5	-.6
125.0	1.6	.1	.2	.2	.0	.1	.0	.0	.0	1.9	3.4	2.5	-.9
126.0	1.3	.1	.2	.2	.0	.1	.0	.0	.0	1.9	3.2	2.5	-1.2
127.0	1.1	.1	.2	.2	.0	.1	.0	.0	.0	1.8	2.9	2.5	-1.4
128.0	.8	.1	.2	.2	.0	.1	.0	.0	.0	2.5	3.3	2.4	-1.6
129.0	.5	.1	.2	.2	.0	.1	.0	.0	.0	4.7	5.2	2.4	-1.9
130.0	.3	.1	.2	.2	.0	.1	.0	.0	.0	7.0	7.2	2.4	-2.1
140.0	7.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.6	.7	6.3
150.0	6.4	1.6	1.3	-.4	.0	-1.1	.0	.0	-.1	3.5	9.9	4.3	2.1
160.0	4.6	1.5	1.1	-.3	.0	-1.0	.0	.0	-.1	3.1	7.7	4.1	.5
170.0	2.8	1.4	1.0	-.3	.0	-.9	.0	.0	-.1	2.9	5.7	3.8	-.9
180.0	1.3	1.2	1.0	-.3	.0	-.8	.0	.0	-.1	2.7	3.9	3.5	-2.2
190.0	.0	1.1	.9	-.3	.0	-.8	.0	.0	-.1	2.4	2.4	3.2	-3.3
200.0	-1.2	1.0	.8	-.2	.0	-.7	.0	.0	.0	2.2	1.1	3.0	-4.2
210.0	-2.1	.9	.7	-.2	.0	-.6	.0	.0	.0	2.0	-.1	2.8	-4.9
220.0	-2.9	.9	.7	-.2	.0	-.6	.0	.0	.0	1.9	-1.0	2.6	-5.5
230.0	-3.5	.8	.6	-.2	.0	-.5	.0	.0	.0	1.7	-1.8	2.4	-5.9
240.0	-4.0	.7	.5	-.2	.0	-.5	.0	.0	.0	1.6	-2.5	2.2	-6.2
250.0	-4.4	.6	.5	-.1	.0	-.4	.0	.0	.0	1.4	-3.0	2.0	-6.3
260.0	-4.6	.6	.4	-.1	.0	-.4	.0	.0	.0	1.3	-3.3	1.8	-6.4
270.0	-4.7	.5	.4	-.1	.0	-.3	.0	.0	.0	1.1	-3.6	1.6	-6.3
280.0	-4.7	.4	.3	-.1	.0	-.3	.0	.0	.0	1.0	-3.7	1.5	-6.2
290.0	-4.7	.4	.3	-.1	.0	-.3	.0	.0	.0	.9	-3.8	1.3	-6.0
300.0	-4.5	.3	.3	-.1	.0	-.2	.0	.0	.0	.8	-3.7	1.2	-5.7
310.0	-4.3	.3	.2	-.1	.0	-.2	.0	.0	.0	.7	-3.6	1.0	-5.3
320.0	-4.0	.2	.2	-.1	.0	-.2	.0	.0	.0	.6	-3.4	.9	-4.8

GN/C

ALPHA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-3.6	-.2	-.2	.0	.0	.1	.0	.0	.0	.5	-3.1	.7	-4.3
340.0	-3.2	-.1	-.1	.0	.0	.1	.0	.0	.0	.4	-2.8	.6	-3.8
350.0	-2.7	-.1	-.1	.0	.0	.0	.0	.0	.0	.3	-2.4	.5	-3.2
360.0	-2.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	-1.9	.4	-2.6
370.0	-1.7	.0	.0	.0	.0	.0	.0	.0	-.1	.3	-1.4	.4	-2.1
380.0	-1.2	.1	.0	.0	.0	.0	.0	.0	-.1	.4	-.8	.4	-1.6
390.0	-.6	.1	.1	.0	.0	.0	.0	.0	-.1	.4	-.2	.5	-1.1
400.0	.0	.0	.1	.0	.0	-.1	.0	.0	-.1	.7	.7	.6	-.6
410.0	.5	.2	.1	.0	.0	-.1	.0	.0	-.1	1.3	1.8	.7	-.1
420.0	1.0	.3	.1	.0	.0	-.1	.0	.0	-.1	1.4	2.4	.8	.3
430.0	1.5	.3	.2	.0	.0	-.1	.0	.0	-.1	1.3	2.8	.9	.6
440.0	1.9	.4	.2	.0	.0	-.1	.0	.0	-.1	1.3	3.2	1.0	.9
450.0	2.1	.4	.2	-.1	.0	-.2	.0	.0	.0	1.4	3.6	1.1	1.0
460.0	2.3	.5	.3	-.1	.0	-.2	.0	.0	.5	1.6	3.9	1.4	.8
470.0	2.2	.5	.4	-.1	.1	-.2	.0	.0	.1	1.7	3.9	1.9	.3
480.0	2.5	.5	.4	-.1	.1	-.2	.0	.0	-.3	1.6	4.1	2.5	.0

GN/C

ALPHA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-3.6	.2	.1	.0	.0	-.1	.0	.0	.0	.5	-3.1	.7	-4.3
340.0	-3.2	.1	.1	.0	.0	-.1	.0	.0	.0	.4	-2.8	.6	-3.8
350.0	-2.7	.1	.1	.0	.0	-.1	.0	.0	.0	.3	-2.4	.5	-3.2
360.0	-2.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	-1.9	.4	-2.6
370.0	-1.7	.0	.0	.0	.0	.0	.0	.0	.0	.3	-1.4	.4	-2.1
380.0	-1.2	-.1	-.1	.0	.0	.0	.0	.0	.0	.4	-.8	.4	-1.6
390.0	-.6	-.1	-.1	.0	.0	.1	.0	.0	.0	.4	-.2	.5	-1.1
400.0	.0	-.2	-.1	.0	.0	.1	.0	.0	.1	.7	.7	.6	-.6
410.0	.5	-.2	-.2	.0	.0	.1	.0	.0	.1	1.3	1.8	.7	-.1
420.0	1.0	-.3	-.2	.1	.0	.2	.0	.0	.1	1.4	2.4	.8	.3
430.0	1.5	-.3	-.2	.1	.0	.2	.0	.0	.1	1.3	2.8	.9	.6
440.0	1.9	-.4	-.2	.1	.0	.2	.0	.0	.1	1.3	3.2	1.0	.9
450.0	2.1	-.4	-.3	.1	.0	.2	.0	.0	.1	1.4	3.6	1.1	1.0
460.0	2.2	-.4	-.3	.1	.0	.2	.0	.0	.1	1.6	3.9	1.4	.8
470.0	2.2	-.5	-.4	.1	.0	.3	.0	.0	.1	1.7	3.9	1.9	.3
480.0	2.5	-.5	-.4	.1	.0	.3	.0	.0	.1	1.6	4.1	2.5	.0

PROPULSION

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	-19.7	-1.7	.0	.2	.4	.2	.0	.4	.0	.0	.0	.1	1.8	-18.0	1.9	-21.6
2.0	-8.5	-.7	.0	.1	.4	.2	.0	.0	.0	.0	.0	.0	.8	-7.7	.8	-9.3
3.0	-5.4	-.4	.0	.1	.5	.2	.0	-.2	.0	.0	.0	.0	.7	-4.6	.6	-6.0
4.0	-3.9	-.3	.0	.0	.6	.3	.0	-.4	.0	.0	.0	.0	.8	-3.1	.7	-4.6
5.0	-3.1	-.2	.0	.0	.6	.3	.0	-.5	.0	.0	.0	-.1	.8	-2.2	.7	-3.8
6.0	-2.5	-.2	.0	.0	.6	.3	.0	-.5	.0	.0	.0	-.1	.8	-1.7	.8	-3.3
7.0	-2.2	-.2	.0	.0	.7	.3	.0	-.6	.0	.0	.0	-.1	.8	-1.3	.8	-2.9
8.0	-2.1	.0	.0	.0	.6	.2	.0	-.6	.0	.0	.0	-.1	.8	-1.3	.8	-2.9
9.0	-2.1	.0	.0	.0	.6	.3	.1	-.6	.0	.0	.1	-.1	.8	-1.3	.8	-2.8
10.0	-1.6	-.1	.0	.1	.6	.3	.2	-.5	.1	.0	.2	-.1	.9	-.6	.7	-2.3
11.0	-.9	.0	.0	.1	.5	.3	.3	-.5	.1	.0	.2	.0	.9	.0	.7	-1.6
12.0	-.3	.1	.0	.0	.4	.2	.4	-.4	.1	.0	.2	.0	.9	.6	.7	-1.0
13.0	.1	.2	.0	.0	.3	.2	.5	-.3	.1	.0	.2	.0	.9	1.0	.7	-.6
14.0	.4	.3	.0	.0	.2	.1	.6	-.2	.1	.0	.2	.0	.8	1.3	.7	-.3
15.0	.6	.4	.0	.0	.1	.0	.6	-.1	.0	.0	.2	.0	.8	1.4	.7	-.2
16.0	.6	.4	.0	-.1	.0	.0	.6	-.1	.0	.0	.1	.0	.8	1.4	.8	-.2
17.0	.4	.4	.0	-.1	-.1	-.1	.6	.0	.0	.0	.1	.0	.8	1.2	.8	-.4
18.0	.2	.4	.0	-.1	.0	-.1	.6	.0	.0	.0	.1	.0	.8	1.0	.8	-.6
19.0	.0	.3	.0	.0	.0	.0	.5	.0	.0	.0	.1	.0	.8	.8	.7	-.7
20.0	.1	.3	.0	.0	.1	.0	.5	-.1	.0	.0	.1	.0	.7	.8	.6	-.5
21.0	.1	.2	.0	.0	.1	.0	.4	-.1	.0	.0	.1	.0	.6	.8	.6	-.4
22.0	.1	.3	.0	.0	.1	.0	.4	-.1	.0	.0	.1	.0	.6	.7	.5	-.4
23.0	.1	.2	.0	.0	.1	.0	.4	-.1	.0	.0	.1	.0	.6	.6	.5	-.4
24.0	.1	.1	.0	.0	.2	.0	.3	-.1	.0	.0	.1	.0	.5	.6	.4	-.4
25.0	.1	.1	.0	.0	.1	.0	.3	-.1	.0	.0	.1	.0	.5	.6	.4	-.3
26.0	.2	.1	.0	.0	.1	.0	.3	-.1	.0	.0	.1	.0	.5	.6	.4	-.3
27.0	.2	.1	.0	.0	.1	.0	.2	-.1	.0	.0	.1	.0	.5	.6	.4	-.3
28.0	.2	.1	.0	.0	.1	.0	.2	-.1	.0	.0	.1	.0	.5	.7	.5	-.3
29.0	.1	.1	.0	.0	.1	.0	.2	.0	.0	.0	.1	.0	.5	.7	.5	-.3
30.0	.1	.1	.0	.0	.2	.1	.2	.0	.0	.0	.1	.0	.6	.7	.5	-.3
31.0	.1	.1	.0	.0	.2	.1	.2	.0	.0	.0	.0	.0	.6	.7	.5	-.4
32.0	.1	.1	.0	.0	.3	.1	.1	.0	.0	.0	.0	.0	.6	.8	.5	-.4
33.0	.1	.1	.0	.0	.3	.1	.1	.0	.0	.0	.0	.0	.6	.8	.6	-.4
34.0	.1	.1	.0	.0	.3	.1	.1	.0	.0	.0	.0	.0	.7	.8	.6	-.4
35.0	.2	.1	.0	.0	.3	.1	.1	.0	.0	.0	.0	.0	.7	.9	.6	-.5
36.0	.2	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.7	.9	.7	-.5
37.0	.2	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.8	.9	.7	-.5
38.0	.2	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.8	1.0	.7	-.5
39.0	.2	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.8	.9	.7	-.5
40.0	.1	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.8	.9	.7	-.5
41.0	.1	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.7	.8	.6	-.5
42.0	.1	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.7	.8	.6	-.5
43.0	.1	.1	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.6	.7	.6	-.4
44.0	.1	.1	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
45.0	.2	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
46.0	.2	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
47.0	.2	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
48.0	.2	.1	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.3
49.0	.2	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.6	.9	.5	-.3

PROPULSION

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	-19.7	1.5	.0	-.2	-.3	-.2	.0	.0	.0	.0	.0	.0	1.8	-18.0	1.9	-21.6
2.0	-8.5	.6	.0	-.1	.1	-.2	.0	.0	.0	.0	.0	.0	.8	-7.7	.8	-9.3
3.0	-5.4	.4	.0	-.1	.3	-.2	.0	.0	.0	.0	.0	.0	.7	-4.6	.6	-6.0
4.0	-3.9	.3	.0	.0	.4	-.3	.0	.0	.0	.0	.0	.0	.8	-3.1	.7	-4.6
5.0	-3.1	.2	.0	.0	.5	-.3	.0	.0	.0	.0	.0	.0	.8	-2.2	.7	-3.8
6.0	-2.5	.2	.0	.0	.6	-.3	.0	.0	.0	.0	.0	.0	.8	-1.7	.8	-3.3
7.0	-2.2	.1	.0	.0	.6	-.3	.0	.0	.0	.0	.0	.0	.8	-1.3	.8	-2.9
8.0	-2.1	.0	.0	.0	.6	-.3	.0	.0	.0	.0	.0	.0	.8	-1.3	.8	-2.9
9.0	-2.1	.1	.0	.0	.6	-.3	-.1	.0	.0	.0	.0	.0	.8	-1.3	.8	-2.8
10.0	-1.5	.2	.0	.0	.6	-.2	-.2	.0	.0	.0	-.1	.0	.9	-.6	.7	-2.3
11.0	-.9	.0	.0	.0	.6	-.2	-.3	.0	.0	.0	-.1	.0	.9	.0	.7	-1.6
12.0	-.3	-.1	.0	.0	.6	-.1	-.4	.0	.0	.0	-.1	.0	.9	.6	.7	-1.0
13.0	.1	-.2	.0	.0	.5	-.1	-.5	.0	.0	.0	-.2	.0	.9	1.0	.7	-.6
14.0	.4	-.3	.0	.0	.4	-.1	-.5	.0	.0	.0	-.2	.0	.8	1.3	.7	-.3
15.0	.6	-.4	.0	.0	.4	.0	-.6	.0	.0	.0	-.2	.0	.8	1.4	.7	-.2
16.0	.6	-.4	.0	.0	.3	.0	-.6	.0	.0	.0	-.2	.0	.8	1.4	.8	-.2
17.0	.4	-.5	.0	.0	.2	.0	-.6	.0	.0	.0	-.2	.0	.8	1.2	.8	-.4
18.0	.2	-.4	.0	.0	.2	.0	-.6	.0	.0	.0	-.2	.0	.8	1.0	.8	-.6
19.0	.0	-.2	.0	.0	.2	.0	-.5	.0	.0	.0	-.2	.0	.8	.8	.7	-.7
20.0	.1	-.2	.0	.0	.2	.0	-.5	.0	.0	.0	-.2	.0	.7	.8	.6	-.5
21.0	.1	-.2	.0	.0	.3	.0	-.4	.0	.0	.0	-.1	.0	.6	.8	.6	-.4
22.0	.1	-.2	.0	.0	.3	-.1	-.4	.0	.0	.0	-.1	.0	.6	.7	.5	-.4
23.0	.1	-.1	.0	.0	.3	-.1	-.4	.0	.0	.0	-.1	.0	.6	.6	.5	-.4
24.0	.1	-.1	.0	.0	.2	-.1	-.3	.0	.0	.0	-.1	.0	.5	.6	.4	-.4
25.0	.1	-.2	.0	.0	.2	-.1	-.3	.0	.0	.0	-.1	.0	.5	.6	.4	-.3
26.0	.2	-.2	.0	.0	.3	-.1	-.3	.0	.0	.0	-.1	.0	.5	.6	.4	-.3
27.0	.2	-.2	.0	.0	.3	-.1	-.2	.0	.0	.0	-.1	.0	.5	.6	.4	-.3
28.0	.2	-.2	.0	.0	.3	-.1	-.2	.0	.0	.0	-.1	.0	.5	.7	.5	-.3
29.0	.1	-.1	.0	.0	.3	-.1	-.2	.0	.0	.0	-.1	.0	.5	.7	.5	-.3
30.0	.1	-.1	.0	.0	.3	-.1	-.2	.0	.0	.0	-.1	.0	.6	.7	.5	-.3
31.0	.1	-.1	.0	.0	.3	-.1	-.2	.0	.0	.0	.0	.0	.6	.7	.5	-.4
32.0	.1	.0	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.6	.8	.5	-.4
33.0	.1	.0	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.6	.8	.6	-.4
34.0	.1	.0	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.7	.8	.6	-.4
35.0	.2	.0	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.7	.9	.6	-.5
36.0	.2	-.1	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.7	.9	.7	-.5
37.0	.2	-.1	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.8	.9	.7	-.5
38.0	.2	-.1	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.8	1.0	.7	-.5
39.0	.2	-.1	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.8	.9	.7	-.5
40.0	.1	-.1	.0	.0	.3	-.1	.0	.0	.0	.0	.0	.0	.8	.9	.7	-.5
41.0	.1	-.1	.0	.0	.3	-.1	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.5
42.0	.1	.0	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.7	.8	.6	-.5
43.0	.1	.0	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.7	.6	-.4
44.0	.1	.0	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.7	.5	-.4
45.0	.2	.0	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.8	.5	-.4
46.0	.2	.0	.0	.0	.2	-.1	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
47.0	.2	-.1	.0	.0	.2	-.1	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
48.0	.2	-.1	.0	.0	.2	-.1	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.3
49.0	.2	-.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.3

PROPULSION

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	.2	.2	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.7	.8	.5	-.4
51.0	.2	.2	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
52.0	.2	.1	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.6	.8	.6	-.4
53.0	.2	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.6	.9	.6	-.4
54.0	.3	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.3
55.0	.3	.1	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.3
56.0	.3	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.7	1.0	.6	-.4
57.0	.2	.2	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.8	1.0	.6	-.4
58.0	.2	.2	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.8	1.0	.6	-.5
59.0	.1	.2	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.8	.9	.6	-.5
60.0	.1	.2	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.8	.9	.6	-.5
61.0	.1	.2	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.8	.9	.6	-.5
62.0	.2	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.7	.9	.6	-.5
63.0	.2	.1	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.7	.9	.6	-.4
64.0	.1	.2	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.7	.8	.6	-.4
65.0	.1	.2	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.7	.8	.5	-.4
66.0	.1	.2	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.7	.8	.5	-.4
67.0	.1	.2	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.6	.7	.5	-.4
68.0	.1	.2	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.6	.7	.5	-.4
69.0	.1	.2	.0	.0	.2	.1	.1	-.1	.0	.0	.0	.0	.6	.7	.5	-.4
70.0	.1	.2	.0	.0	.2	.1	.1	-.1	.0	.0	.0	.0	.6	.6	.5	-.4
71.0	.1	.2	.0	.0	.2	.1	.1	-.1	.0	.0	.0	.0	.6	.6	.5	-.4
72.0	.0	.2	.0	.0	.2	.1	.1	-.1	.0	.0	.0	.0	.6	.6	.4	-.4
73.0	.0	.2	.0	.0	.2	.1	.1	-.1	.0	.0	.0	.0	.6	.6	.4	-.4
74.0	.0	.2	.0	.0	.2	.1	.1	-.1	.0	.0	.0	.0	.6	.6	.4	-.4
75.0	.0	.2	.0	.0	.2	.1	.1	-.1	.0	.0	.0	.0	.6	.6	.5	-.4
76.0	.0	.2	.0	.0	.2	.1	.1	-.1	.0	.0	.0	.0	.6	.6	.5	-.5
77.0	.0	.2	.0	.0	.2	.1	.1	-.1	.0	.0	.0	.0	.6	.6	.5	-.5
78.0	.0	.2	.0	.0	.2	.1	.1	-.1	.0	.0	.0	.0	.6	.6	.5	-.5
79.0	.0	.2	.0	.0	.2	.1	.1	-.1	.0	.0	.0	.0	.7	.6	.6	-.6
80.0	.0	.2	.0	.0	.2	.1	.1	-.1	.0	.0	.0	.0	.7	.7	.6	-.6
81.0	.0	.2	.0	.0	.2	.1	.1	-.1	.0	.0	.0	.0	.7	.8	.7	-.6
82.0	.0	.2	.0	.0	.2	.1	.1	-.1	.0	.0	.0	.0	.8	.8	.7	-.7
83.0	.0	.2	.0	.0	.2	.1	.1	-.1	.0	.0	.0	.0	.9	.9	.8	-.8
84.0	.0	.2	.0	.0	.2	.1	.1	-.1	.0	.0	.0	.0	.9	1.0	.9	-.8
85.0	.0	.3	.0	.0	.1	.1	.1	-.2	.0	.0	.1	.0	1.0	1.0	1.0	-.9
86.0	.0	.3	.0	.0	.1	.2	.1	-.2	.0	.0	.1	.0	1.1	1.1	1.0	-1.0
87.0	.0	.3	.0	.0	.1	.2	.1	-.2	.0	.0	.1	.0	1.1	1.1	1.1	-1.1
88.0	.0	.3	.0	.0	.1	.2	.1	-.2	.0	.0	.1	.0	1.2	1.2	1.1	-1.1
89.0	.0	.3	.0	.0	.1	.2	.1	-.2	.0	.0	.1	.0	1.2	1.1	1.1	-1.1
90.0	.0	.3	.0	.0	.3	.2	.1	-.2	.0	.0	.1	.0	1.3	1.2	1.0	-1.1
91.0	.0	.3	.0	-.1	.1	.2	.0	-.1	.0	.0	.0	.0	1.1	1.2	1.0	-1.0
92.0	.1	.2	.0	.1	.3	.1	.1	-.2	.0	.0	.1	.0	1.1	1.2	1.2	-1.1
93.0	.3	.0	.0	.1	.3	.2	.1	-.2	.0	.0	.1	.0	1.1	1.4	1.0	-.7
94.0	.4	.1	.0	.0	.3	.2	.1	-.2	.0	.0	.1	.0	1.1	1.5	1.0	-.6
95.0	.5	-.1	.0	.0	.3	.2	.1	-.2	.0	.0	.0	.0	1.1	1.6	1.1	-.6
96.0	.4	.2	.0	.0	.3	.2	.1	-.2	.0	.0	.0	.0	1.2	1.6	1.1	-.6
97.0	.4	.4	.0	.0	.4	.2	.1	-.2	.0	.0	.0	.0	1.3	1.6	1.0	-.7
98.0	.3	.5	.0	.0	.4	.2	.1	-.2	.0	.0	.0	.0	1.3	1.6	1.0	-.7
99.0	.3	.5	.0	.0	.5	.2	.1	-.2	.0	.0	.0	.0	1.3	1.6	1.0	-.7

PROPULSTON

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	.2	-.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
51.0	.2	.0	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.7	.8	.5	-.4
52.0	.2	.0	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.8	.6	-.4
53.0	.2	.0	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.6	.9	.6	-.4
54.0	.3	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.7	.9	.6	-.3
55.0	.3	-.1	.0	.0	.3	-.1	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.3
56.0	.3	-.2	.0	.0	.3	-.1	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.4
57.0	.2	-.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.6	-.4
58.0	.2	-.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.6	-.5
59.0	.1	-.1	.0	.0	.3	-.1	.0	.0	.0	.0	.0	.0	.8	.9	.6	-.5
60.0	.1	-.1	.0	.0	.3	-.1	.0	.0	.0	.0	.0	.0	.8	.9	.6	-.5
61.0	.1	-.1	.0	.0	.3	-.1	.0	.0	.0	.0	.0	.0	.8	.9	.6	-.5
62.0	.2	-.1	.0	.0	.3	-.1	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.5
63.0	.2	-.2	.0	.0	.3	-.1	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.4
64.0	.1	-.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
65.0	.1	-.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
66.0	.1	-.1	.0	.0	.3	-.1	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
67.0	.1	-.1	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.6	.7	.5	-.4
68.0	.1	-.1	.0	.0	.3	.0	-.1	.0	.0	.0	.0	.0	.6	.7	.5	-.4
69.0	.1	-.1	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.6	.7	.5	-.4
70.0	.1	-.1	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.6	.6	.5	-.4
71.0	.1	-.2	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.6	.6	.5	-.4
72.0	.0	-.1	.0	.0	.3	.0	-.1	.0	.0	.0	.0	.0	.6	.6	.4	-.4
73.0	.0	-.1	.0	.0	.3	.0	-.1	.0	.0	.0	.0	.0	.6	.6	.4	-.4
74.0	.0	-.1	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.6	.6	.4	-.4
75.0	.0	-.1	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.6	.6	.5	-.4
76.0	.0	-.1	.0	.0	.3	.0	-.1	.0	.0	.0	.0	.0	.6	.6	.5	-.5
77.0	.0	-.1	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.6	.6	.5	-.5
78.0	.0	-.1	.0	.0	.3	.0	-.1	.0	.0	.0	.0	.0	.6	.6	.5	-.5
79.0	.0	-.1	.0	.0	.3	-.1	-.1	.0	.0	.0	.0	.0	.7	.6	.6	-.6
80.0	.0	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.7	.7	.6	-.6
81.0	.0	-.1	.0	.0	.2	-.1	-.1	.0	.0	.0	.0	.0	.7	.8	.7	-.6
82.0	.0	-.1	.0	.0	.3	.0	-.1	.0	.0	.0	.0	.0	.8	.8	.7	-.7
83.0	.0	-.2	.0	.0	.3	.0	-.1	.0	.0	.0	.0	.0	.9	.9	.8	-.8
84.0	.0	-.2	.0	.0	.3	.0	-.1	.0	.0	.0	.0	.0	.9	1.0	.9	-.8
85.0	.0	-.2	.0	.0	.3	.0	-.1	.0	.0	.0	.0	.0	1.0	1.0	1.0	-.9
86.0	.0	-.2	.0	.1	.3	.0	-.1	.0	.0	.0	.0	.0	1.1	1.1	1.0	-1.0
87.0	.0	-.2	.0	.0	.3	.0	-.1	.0	.0	.0	.0	.0	1.1	1.1	1.1	-1.1
88.0	.0	.0	.0	.0	.2	.0	-.1	.0	.0	.0	.0	.0	1.2	1.2	1.1	-1.1
89.0	.0	-.3	.0	.0	.2	.0	-.1	.0	.0	.0	.0	.0	1.2	1.1	1.1	-1.1
90.0	.0	.0	.0	.0	.2	.0	-.1	.0	.0	.0	.0	.0	1.3	1.2	1.0	-1.1
91.0	.0	.1	.0	.2	.2	.1	.0	.0	.1	.0	.0	.0	1.1	1.2	1.0	-1.0
92.0	.1	.1	.0	-.1	.3	-.2	-.2	.0	.0	.0	.0	.0	1.1	1.2	1.2	-1.1
93.0	.3	-.1	.0	.0	.1	-.1	-.1	.0	.0	.0	.0	.0	1.1	1.4	1.0	-.7
94.0	.4	-.2	.0	.0	.2	.0	-.1	.0	.0	.0	.0	.0	1.1	1.5	1.0	-.6
95.0	.5	-.3	.0	.1	.4	.0	-.1	.0	.0	.0	.0	.0	1.1	1.6	1.1	-.6
96.0	.4	-.3	.0	.1	.5	.0	-.1	.0	.0	.0	.0	.0	1.2	1.6	1.1	-.6
97.0	.4	-.3	.0	.1	.6	.0	-.1	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
98.0	.3	-.3	.0	.1	.6	.0	-.1	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
99.0	.3	-.3	.0	.1	.6	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7

PROPULSION

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	.3	.4	.0	.0	.5	.2	.0	-.2	.0	.0	.0	.0	1.3	1.6	1.0	-.7
101.0	.3	.4	.0	.0	.6	.2	.0	-.2	.0	.0	.0	.0	1.3	1.6	1.0	-.8
102.0	.2	.4	.0	.0	.6	.2	.0	-.2	.0	.0	.0	.0	1.3	1.6	1.0	-.8
103.0	.2	.5	.0	.0	.6	.2	.0	-.2	.0	.0	.0	.0	1.3	1.6	1.0	-.8
104.0	.3	.4	.0	.0	.6	.2	.0	-.2	.0	.0	.0	.1	1.3	1.6	1.0	-.7
105.0	.3	.4	.0	.0	.6	.2	.0	-.2	.0	.0	.0	.1	1.3	1.6	1.0	-.7
106.0	.3	.3	.0	.0	.6	.2	.0	-.2	.0	.0	.0	.1	1.3	1.6	1.0	-.7
107.0	.3	.4	.0	.0	.6	.2	.0	-.2	.0	.0	.0	.1	1.3	1.6	1.0	-.7
108.0	.3	.4	.0	.0	.6	.2	.0	-.2	.0	.0	.0	.1	1.3	1.6	1.0	-.7
109.0	.3	.4	-.0	.0	.6	.2	.0	-.2	.0	.0	.0	.1	1.5	1.8	1.2	-.9
110.0	.3	.4	-2.2	.0	.6	.2	.0	-.2	.0	.0	.0	.1	2.5	2.8	2.4	-2.1
111.0	.4	.3	-3.4	.0	.5	.2	.0	-.1	.0	.0	.0	.1	3.6	3.9	3.5	-3.2
112.0	.4	.2	-4.1	.0	.4	.2	.0	-.1	.0	.0	.0	.1	4.1	4.6	4.1	-3.7
113.0	.5	.2	-4.1	.0	.4	.2	.0	-.1	.0	.0	.0	.1	4.2	4.6	4.2	-3.7
114.0	.5	.2	-3.5	.1	.3	.2	.0	-.1	.0	.0	.0	.2	3.6	4.1	3.6	-3.1
115.0	.5	.3	-2.9	.1	.3	.2	-.1	-.1	.1	.0	.0	.2	2.9	3.4	3.0	-2.5
116.0	.5	.3	-1.8	.1	.3	.2	-.1	-.1	.1	.0	.0	.2	2.1	2.6	2.1	-1.6
117.0	.5	.3	-.9	.1	.2	.2	-.1	-.1	.1	.0	.0	.2	1.3	1.8	1.3	-.8
118.0	.4	.4	-.4	.1	.2	.2	-.1	-.1	.1	.0	.0	.2	1.0	1.5	1.0	-.6
119.0	.4	.5	-.5	.1	.2	.2	-.1	-.1	.1	.0	.0	.3	1.1	1.5	1.0	-.6
120.0	.4	.5	-.9	.1	.1	.2	-.1	-.1	.1	.0	.0	.3	1.3	1.7	1.3	-.9
121.0	.3	.6	-1.3	.0	.0	.2	-.1	-.1	.1	.0	.0	.3	1.6	1.9	1.6	-1.3
122.0	.3	.6	-1.3	-.1	-.1	.1	-.1	-.1	.0	.0	.0	.3	1.7	1.9	1.7	-1.5
123.0	.2	.6	-1.1	-.2	-.1	.1	-.1	-.2	.0	.0	.0	.3	1.6	1.8	1.7	-1.4
124.0	.2	.6	-1.0	-.2	-.2	.1	-.1	-.2	.0	.0	.0	.3	1.5	1.7	1.6	-1.5
125.0	.1	.6	-.9	-.2	-.2	.1	-.1	-.2	.0	.0	.0	.3	1.4	1.5	1.6	-1.5
126.0	.1	.5	-1.0	-.2	-.2	.1	-.1	-.2	.0	.0	.0	.3	1.4	1.5	1.6	-1.5
127.0	.0	.4	-1.0	-.2	-.2	.1	-.1	-.2	.0	.0	.0	.3	1.4	1.4	1.6	-1.5
128.0	.0	.4	-1.0	-.2	-.2	.1	-.1	-.2	.0	.0	.0	.3	1.4	1.4	1.6	-1.6
129.0	-.1	.4	-1.0	-.2	-.1	.1	-.1	-.2	.0	.0	.0	.3	1.4	1.3	1.6	-1.7
130.0	-.1	.4	-1.0	-.2	-.1	.1	.0	-.2	.0	.0	.0	.3	1.4	1.3	1.6	-1.7
140.0	-.9	.4	.3	-.1	-.1	.1	.0	-.2	.0	.0	.0	.3	1.6	.7	1.1	-2.0
150.0	-.5	.2	.4	-.1	-.1	.1	.0	-.2	.0	.0	.0	.3	1.5	.9	1.3	-1.8
160.0	-.6	.4	.5	-.2	-.1	.1	.0	-.2	.0	.0	.0	.3	1.5	.9	1.2	-1.8
170.0	-.7	.4	.5	-.1	-.1	.1	.0	-.2	.0	.0	.0	.2	1.4	.7	1.1	-1.8
180.0	-.8	.4	.6	-.1	-.1	.1	.0	-.1	.0	.0	.0	.2	1.4	.6	1.1	-1.9
190.0	-1.0	.4	.6	-.1	-.1	.1	.0	-.1	.0	.0	.0	.2	1.4	.4	1.0	-2.0
200.0	-1.1	.3	.7	-.1	-.1	.1	.0	-.1	.0	.0	.0	.2	1.4	.3	1.0	-2.0
210.0	-1.2	.3	.7	-.1	-.1	.1	.0	-.1	.0	.0	.0	.2	1.4	.2	.9	-2.1
220.0	-1.3	.3	.8	-.1	-.1	.1	.0	-.1	.0	.0	.0	.2	1.5	.2	.9	-2.1
230.0	-1.4	.3	.8	-.1	.0	.1	.0	-.1	.0	.0	.0	.2	1.5	.2	.8	-2.1
240.0	-1.4	.3	.9	-.1	.1	.1	.0	-.1	.0	.0	.0	.2	1.6	.2	.7	-2.1
250.0	-1.5	.3	.9	-.1	.3	.1	.0	-.1	.0	.0	.0	.2	1.7	.2	.6	-2.2
260.0	-1.6	.3	.9	-.1	.4	.1	.0	-.1	.0	.0	.0	.2	1.9	.3	.6	-2.2
270.0	-1.7	.4	1.0	-.1	.5	.1	.0	-.1	.0	.0	.0	.1	2.0	.4	.6	-2.2
280.0	-1.8	.5	1.0	.0	.6	.2	.1	-.1	.0	.0	.0	.1	2.2	.5	.5	-2.3
290.0	-1.8	.5	1.0	.1	.6	.4	.2	-.1	.0	.0	.0	.1	2.5	.7	.5	-2.3
300.0	-1.9	.6	1.1	.3	.7	.5	.3	-.1	.0	.0	.0	.1	2.8	.9	.5	-2.3
310.0	-1.9	.6	1.0	.4	.7	.5	.4	-.1	.0	.0	.1	.1	2.8	1.0	.6	-2.5
320.0	-1.7	.5	.9	.3	.6	.4	.4	-.1	.0	.0	.1	-.1	2.4	.7	1.0	-2.8

PROPULSION

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	.3	-.3	.0	.1	.7	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
101.0	.3	-.3	.0	.1	.8	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.8
102.0	.2	-.2	.0	.1	.8	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.8
103.0	.2	-.2	.0	.1	.7	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.8
104.0	.3	-.3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
105.0	.3	-.3	.0	.1	.7	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
106.0	.3	-.3	.0	.1	.7	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
107.0	.3	-.3	.0	.1	.7	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
108.0	.3	-.2	.0	.1	.7	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
109.0	.3	-.2	.0	.1	.7	.0	.0	.0	.0	.0	.0	.0	1.5	1.8	1.2	-.9
110.0	.3	-.2	2.2	.1	.6	.0	.0	.0	.0	.0	.0	.0	2.5	2.8	2.4	-2.1
111.0	.4	-.3	3.4	.0	.5	-.1	.0	.0	.0	.0	.0	.0	3.6	3.9	3.5	-3.2
112.0	.4	-.3	4.1	.0	.4	-.1	.0	.0	.0	.0	.0	.0	4.1	4.6	4.1	-3.7
113.0	.5	-.4	4.1	.0	.3	-.1	.0	.0	.0	.0	.0	.0	4.2	4.6	4.2	-3.7
114.0	.5	-.5	3.5	.0	.3	-.1	.0	.0	.0	.0	.0	.0	3.6	4.1	3.6	-3.1
115.0	.5	-.5	2.9	.0	.2	-.1	.1	.0	.0	.0	.0	.0	2.9	3.4	3.0	-2.5
116.0	.5	-.5	1.9	.0	.1	-.1	.1	.0	.0	.0	.0	.0	2.1	2.6	2.1	-1.6
117.0	.5	-.5	.9	.0	.1	-.1	.1	.0	.0	.0	.0	.0	1.3	1.8	1.3	-.8
118.0	.4	-.6	.4	.0	.1	-.1	.1	.0	.0	.0	.0	.0	1.0	1.5	1.0	-.6
119.0	.4	-.6	.5	.0	.1	-.1	.1	.0	.0	.0	.0	.0	1.1	1.5	1.0	-.6
120.0	.4	-.6	.8	.0	.1	.0	.1	.0	.0	.0	.0	.0	1.3	1.7	1.3	-.9
121.0	.3	-.6	1.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	1.6	1.9	1.6	-1.3
122.0	.3	-.6	1.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.7	1.9	1.7	-1.5
123.0	.2	-.6	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.6	1.8	1.7	-1.4
124.0	.2	-.5	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.5	1.7	1.6	-1.5
125.0	.1	-.5	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.4	1.5	1.6	-1.5
126.0	.1	-.5	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.4	1.5	1.6	-1.5
127.0	.0	-.5	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.4	1.4	1.6	-1.5
128.0	.0	-.5	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.4	1.4	1.6	-1.6
129.0	-.1	-.6	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.4	1.3	1.6	-1.7
130.0	-.1	-.7	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.4	1.3	1.6	-1.7
140.0	-.9	-.4	1.0	-.1	.0	-.1	-.1	.0	.0	.0	.0	.0	1.6	.7	1.1	-2.0
150.0	-.5	-.5	.9	-.1	-.2	-.1	-.1	.0	.0	.0	.0	.0	1.5	.9	1.3	-1.8
160.0	-.6	-.6	.9	.0	.0	-.1	-.1	.0	.0	.0	.0	.0	1.5	.9	1.2	-1.8
170.0	-.7	-.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.7	1.1	-1.8
180.0	-.8	-.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.6	1.1	-1.9
190.0	-1.0	-.5	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.4	1.0	-2.0
200.0	-1.1	-.5	.7	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.4	.3	1.0	-2.0
210.0	-1.2	-.5	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	1.4	.2	.9	-2.1
220.0	-1.3	-.4	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	1.5	.2	.9	-2.1
230.0	-1.4	-.4	.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	1.5	.2	.8	-2.1
240.0	-1.4	-.3	.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	1.6	.2	.7	-2.1
250.0	-1.5	.0	.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	1.7	.2	.6	-2.2
260.0	-1.6	.1	.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	1.9	.3	.6	-2.2
270.0	-1.7	.2	.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	2.0	.4	.6	-2.2
280.0	-1.8	.3	.5	.1	.7	.0	.0	.0	.0	.0	.0	.0	2.2	.5	.5	-2.3
290.0	-1.8	.5	.5	.2	.8	.0	.0	.0	.0	.0	.0	.0	2.5	.7	.5	-2.3
300.0	-1.9	.6	.4	.4	.8	.2	.0	.0	.1	.0	.0	.0	2.8	.9	.5	-2.3
310.0	-1.9	.6	.4	.4	.8	.3	.0	.0	.2	.0	-.1	.0	2.8	1.0	.6	-2.5
320.0	-1.7	.5	.3	.4	.7	.2	.0	.0	.2	.0	-.1	.0	2.4	.7	1.0	-2.8

PROPULSION

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-1.6	.5	.7	.3	.5	.4	.3	-.5	.0	.0	.1	-.3	2.0	.4	1.4	-3.1
340.0	-1.5	.4	.6	.2	.4	.3	.2	-.6	.0	.0	.1	-.5	1.6	.1	1.8	-3.3
350.0	-1.4	.3	.4	.2	.4	.2	.2	-.8	.0	.0	.1	-.6	1.3	-.1	2.1	-3.6
360.0	-1.3	.2	.3	.2	.3	.2	.2	-.9	.0	.0	.0	-.8	1.0	-.3	2.5	-3.8
370.0	-1.2	.1	.2	.1	.2	.1	.1	-1.0	.0	.0	.0	-.9	.7	-.5	2.8	-4.0
380.0	-1.1	.0	.1	.1	.1	.1	.1	-1.2	.0	.0	.0	-1.0	.4	-.7	3.1	-4.2
390.0	-1.0	.0	.0	.1	.0	.0	.0	-1.3	.1	.0	.0	-1.2	.3	-.8	3.3	-4.3
400.0	-.9	-.1	-.1	.1	.0	.0	.0	-1.4	.1	.0	.0	-1.3	.1	-.8	3.5	-4.4
410.0	-.8	-.2	-.2	.0	-.1	-.1	.0	-1.3	.1	.0	.0	-1.4	.1	-.7	3.6	-4.4
420.0	-.7	-.2	-.3	.0	-.1	-.1	-.1	-1.2	.1	.0	.0	-1.5	.1	-.6	3.7	-4.5
430.0	-.7	-.3	-.4	.0	-.2	-.2	-.1	-1.1	.1	.0	.0	-1.6	.2	-.5	3.8	-4.5
440.0	-.6	-.3	-.5	.0	-.3	-.2	-.1	-1.2	.1	.0	.0	-1.7	.4	-.2	3.8	-4.4
450.0	-.5	-.4	-.6	-.1	-.3	-.2	-.2	-1.2	.1	.0	.0	-1.8	.6	.0	3.3	-3.8
460.0	-.4	-.5	-.7	-.1	-.4	-.3	-.2	-.9	.1	.0	-.1	-1.9	1.7	1.2	3.4	-3.8
470.0	-.3	-.5	-.7	-.1	-.4	-.3	-.2	-.9	.1	.0	-.1	-1.8	4.0	3.7	3.5	-3.8
480.0	-.4	-.5	-.9	-.1	-.5	-.4	-.3	-.7	.1	.0	-.1	-.6	5.4	5.1	3.0	-3.4

PROPULSION

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	10	11	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-1.5	.5	.0	.3	.6	.2	.0	.0	.2	.0	-.1	.0	2.0	.4	1.4	-3.1
340.0	-1.5	.4	-.2	.3	.5	.2	.0	.0	.1	.0	.0	.0	1.6	.1	1.8	-3.3
350.0	-1.4	.3	-.4	.2	.4	.1	.0	.0	.1	.0	.0	.0	1.3	-.1	2.1	-3.6
360.0	-1.3	.3	-.5	.2	.3	.1	.0	.0	.1	.0	.0	.0	1.0	-.3	2.5	-3.8
370.0	-1.2	.2	-.7	.1	.2	.1	.0	.0	.0	.0	.0	.0	.7	-.5	2.8	-4.0
380.0	-1.1	.2	-.8	.1	.1	.1	.0	.0	.0	.0	.0	.0	.4	-.7	3.1	-4.2
390.0	-1.0	.1	-1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	-.8	3.3	-4.3
400.0	-.9	.1	-1.1	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.1	-.8	3.5	-4.4
410.0	-.8	.0	-1.2	.0	-.2	.0	.0	.0	-.1	.0	.0	.0	.1	-.7	3.6	-4.4
420.0	-.7	.0	-1.2	-.1	-.3	.0	.0	.0	-.1	.0	.0	.0	.1	-.6	3.7	-4.5
430.0	-.7	-.1	-1.4	-.1	-.4	-.1	.0	.0	-.1	.0	.0	.0	.2	-.5	3.8	-4.5
440.0	-.6	-.1	-1.5	-.1	-.4	-.1	.0	.0	-.1	.0	.0	.0	.4	-.2	3.8	-4.4
450.0	-.5	-.1	-1.6	-.2	-.5	-.1	.0	.0	-.1	.0	.0	.0	.6	.0	3.3	-3.8
460.0	-.4	-.2	-1.7	-.2	-.6	-.1	.0	.0	-.2	.0	.0	.0	1.7	1.2	3.4	-3.8
470.0	-.3	-.2	-1.9	-.2	-.6	-.1	.0	.0	-.2	.0	.0	.0	4.0	3.7	3.5	-3.8
480.0	-.4	-.3	-1.9	-.3	-.7	-.2	.0	.0	-.2	.0	.0	.0	5.4	5.1	3.0	-3.4

AERO/ENVIRONMENT

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	-19.7	.0	.0	.0	.0	.0	.0	.0	.0	1.8	-18.0	1.9	-21.6
2.0	-8.5	.0	.0	.0	.0	.0	.0	.0	.0	.8	-7.7	.8	-9.3
3.0	-5.4	.0	.0	.0	.0	.0	.0	.0	.0	.7	-4.6	.6	-6.0
4.0	-3.9	.0	.0	.0	.0	.0	.0	.0	.0	.8	-3.1	.7	-4.6
5.0	-3.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	-2.2	.7	-3.8
6.0	-2.5	.0	.0	.0	.0	.0	.0	.0	.0	.8	-1.7	.8	-3.3
7.0	-2.2	.0	.0	.0	.0	.0	.0	.0	.0	.8	-1.3	.8	-2.9
8.0	-2.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	-1.3	.8	-2.9
9.0	-2.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	-1.3	.8	-2.8
10.0	-1.5	.0	.0	.0	.0	.0	.0	.0	.0	.9	-.6	.7	-2.3
11.0	-.9	.0	-.1	.0	.0	.0	.0	.0	.0	.9	.0	.7	-1.6
12.0	-.3	.0	-.1	.0	.0	.0	.0	.0	.0	.9	.6	.7	-1.0
13.0	.1	.0	-.1	.0	.0	.0	.0	.0	.0	.9	1.0	.7	-.6
14.0	.4	.0	-.2	.0	.0	.0	.0	.0	.0	.8	1.3	.7	-.3
15.0	.6	.0	-.2	.0	.0	.0	.0	.0	.0	.8	1.4	.7	-.2
16.0	.6	.0	-.2	.0	.0	.0	.0	.0	.0	.8	1.4	.8	-.2
17.0	.4	.0	-.3	.0	.0	.0	.0	.0	.0	.8	1.2	.8	-.4
18.0	.2	.0	-.3	.0	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
19.0	.0	.0	-.3	.0	.1	.0	.0	.0	.0	.8	.8	.7	-.7
20.0	.1	.0	-.2	.0	.1	.0	.0	.0	.0	.7	.8	.6	-.5
21.0	.1	.0	-.2	.0	.1	.0	.0	.0	.0	.6	.8	.6	-.4
22.0	.1	.0	-.2	.0	.1	.0	.0	.0	.0	.6	.7	.5	-.4
23.0	.1	.0	-.2	.0	.1	.0	.0	.0	.0	.6	.6	.5	-.4
24.0	.1	.0	-.1	.0	.1	.0	.0	.0	.0	.5	.6	.4	-.4
25.0	.1	.0	-.1	.0	.1	.0	.0	.0	.0	.5	.6	.4	-.3
26.0	.2	.0	-.1	.0	.2	.0	.0	.0	.0	.5	.6	.4	-.3
27.0	.2	.0	-.1	.0	.2	.0	.0	.0	.0	.5	.6	.4	-.3
28.0	.2	.0	-.1	.0	.2	.1	.0	.0	.0	.5	.7	.5	-.3
29.0	.1	.0	-.1	.0	.3	.1	.0	.0	.0	.5	.7	.5	-.3
30.0	.1	.0	-.1	.0	.3	.1	.0	.0	.0	.6	.7	.5	-.3
31.0	.1	.0	.0	.0	.3	.1	.0	.0	.0	.6	.7	.5	-.4
32.0	.1	.0	.0	.0	.4	.1	.0	.0	.0	.6	.8	.5	-.4
33.0	.1	.0	.0	.0	.4	.1	.0	.0	.0	.6	.8	.6	-.4
34.0	.1	.0	.0	.0	.4	.1	.0	.0	.0	.7	.8	.6	-.4
35.0	.2	.0	.0	.0	.5	.1	.0	.0	.0	.7	.9	.6	-.5
36.0	.2	.0	.0	.0	.5	.1	.0	.0	.0	.7	.9	.7	-.5
37.0	.2	.0	.0	.0	.5	.1	.0	.0	.0	.8	.9	.7	-.5
38.0	.2	.0	.0	.0	.5	.1	.0	.0	.0	.8	1.0	.7	-.5
39.0	.2	.0	.0	.0	.5	.1	.0	.0	.0	.8	.9	.7	-.5
40.0	.1	.0	.0	.0	.5	.1	.0	.0	.0	.8	.9	.7	-.5
41.0	.1	.0	.0	.0	.5	.1	.0	.0	.0	.7	.8	.6	-.5
42.0	.1	.0	.0	.0	.5	.1	.0	.0	.0	.7	.8	.6	-.5
43.0	.1	.0	.0	.0	.5	.1	.0	.0	.0	.6	.7	.5	-.4
44.0	.1	.0	.0	.0	.4	.1	.0	.0	.0	.6	.7	.5	-.4
45.0	.2	.0	.0	.0	.4	.1	.0	.0	.0	.6	.8	.5	-.4
46.0	.2	.0	.0	.0	.4	.1	.0	.0	.0	.6	.8	.5	-.3
47.0	.2	.0	.0	.0	.4	.1	.0	.0	.0	.6	.8	.5	-.3
48.0	.2	.0	.0	.0	.4	.1	.0	.0	.0	.6	.9	.5	-.3
49.0	.2	.0	.0	.0	.4	.1	.0	.0	.0	.6	.9	.5	-.3

AERO/ENVIRONMENT

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	-19.7	.0	.0	.0	.0	.0	.0	.0	.0	1.8	-18.0	1.9	-21.6
2.0	-8.5	.0	.0	.0	.0	.0	.0	.0	.0	.8	-7.7	.8	-9.3
3.0	-5.4	.0	.0	.0	.0	.0	.0	.0	.0	.7	-4.6	.6	-6.0
4.0	-3.9	.0	.0	.0	.0	.0	.0	.0	.0	.8	-3.1	.7	-4.6
5.0	-3.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	-2.2	.7	-3.8
6.0	-2.5	.0	.0	.0	.0	.0	.0	.0	.0	.8	-1.7	.8	-3.3
7.0	-2.2	.0	.0	.0	.0	.0	.0	.0	.0	.8	-1.3	.8	-2.9
8.0	-2.1	.0	.0	.0	.0	.0	.0	.0	-.1	.8	-1.3	.8	-2.9
9.0	-2.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	-1.3	.8	-2.8
10.0	-1.5	.0	.0	.0	.0	.0	.0	.0	.1	.9	-.6	.7	-2.3
11.0	-.9	.0	.1	.0	.0	.0	.0	.0	.1	.9	.0	.7	-1.6
12.0	-.3	.0	.1	.0	.0	.0	.0	.0	.1	.9	.6	.7	-1.0
13.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	.9	1.0	.7	-.6
14.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.8	1.3	.7	-.3
15.0	.6	.0	.2	.0	.0	.0	.0	.0	.0	.8	1.4	.7	-.2
16.0	.6	.0	.2	.0	.0	.0	.0	.0	.0	.8	1.4	.8	-.2
17.0	.4	.0	.3	.0	.0	.0	.0	.0	.0	.8	1.2	.8	-.4
18.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
19.0	.0	.0	.3	.0	-.1	.0	.0	.0	.0	.8	.8	.7	-.7
20.0	.1	.0	.2	.0	-.1	.0	.0	.0	.0	.7	.8	.6	-.5
21.0	.1	.0	.2	.0	-.1	.0	.0	.0	.0	.6	.8	.6	-.4
22.0	.1	.0	.2	.0	-.1	.0	.0	.0	.0	.6	.7	.5	-.4
23.0	.1	.0	.2	.0	-.1	.0	.0	.0	.0	.6	.6	.5	-.4
24.0	.1	.0	.1	.0	-.1	.0	.0	.0	.0	.5	.6	.4	-.4
25.0	.1	.0	.1	.0	-.1	.0	.0	.0	.0	.5	.6	.4	-.3
26.0	.2	.0	.1	.0	-.2	.0	.0	.0	.0	.5	.6	.4	-.3
27.0	.2	.0	.1	.0	-.2	.0	.0	.0	.0	.5	.6	.4	-.3
28.0	.2	.0	.1	.0	-.2	-.1	.0	.0	.0	.5	.7	.5	-.3
29.0	.1	.0	.1	.0	-.3	-.1	.0	.0	.0	.5	.7	.5	-.3
30.0	.1	.0	.1	.0	-.3	-.1	.0	.0	.0	.6	.7	.5	-.3
31.0	.1	.0	.0	.0	-.3	-.1	.0	.0	.0	.6	.7	.5	-.4
32.0	.1	.0	.0	.0	-.4	-.1	.0	.0	.0	.6	.8	.5	-.4
33.0	.1	.0	.0	.0	-.4	-.1	.0	.0	.0	.6	.8	.6	-.4
34.0	.1	.0	.0	.0	-.4	-.1	.0	.0	.0	.7	.8	.6	-.4
35.0	.2	.0	.0	.0	-.4	-.1	.0	.0	.0	.7	.9	.6	-.5
36.0	.2	.0	.0	.0	-.5	-.1	.0	.0	.0	.7	.9	.7	-.5
37.0	.2	.0	.0	.0	-.5	-.1	.0	.0	.0	.8	.9	.7	-.5
38.0	.2	.0	.0	.0	-.5	-.1	.0	.0	.0	.8	1.0	.7	-.5
39.0	.2	.0	.0	.0	-.5	-.1	.0	.0	.0	.8	.9	.7	-.5
40.0	.1	.0	.0	.0	-.5	-.1	.0	.0	.0	.8	.9	.7	-.5
41.0	.1	.0	.0	.0	-.5	-.1	.0	.0	.0	.7	.8	.6	-.5
42.0	.1	.0	.0	.0	-.4	-.1	.0	.0	.0	.7	.8	.6	-.5
43.0	.1	.0	.0	.0	-.4	-.1	.0	.0	.0	.6	.7	.6	-.4
44.0	.1	.0	.0	.0	-.4	-.1	.0	.0	.0	.6	.7	.5	-.4
45.0	.2	.0	.0	.0	-.4	-.1	.0	.0	.0	.6	.8	.5	-.4
46.0	.2	.0	.0	.0	-.4	-.1	.0	.0	.0	.6	.8	.5	-.3
47.0	.2	.0	.0	.0	-.4	-.1	.0	.0	.0	.6	.8	.5	-.3
48.0	.2	.0	.0	.0	-.4	-.1	.0	.0	.0	.6	.9	.5	-.3
49.0	.2	.0	.0	.0	-.4	-.1	.0	.0	.0	.6	.9	.5	-.3

AERO/ENVTRONMENT

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	.2	.0	.0	.0	.5	.1	.0	.0	.0	.7	.8	.5	-.4
51.0	.2	.0	.0	.0	.5	.1	.0	.0	.0	.7	.8	.5	-.4
52.0	.2	.0	.0	.0	.5	.1	.0	.0	.0	.6	.6	.6	-.4
53.0	.2	.0	.0	.0	.5	.1	.0	.0	.0	.6	.9	.6	-.4
54.0	.3	.0	.0	.0	.5	.1	.0	.0	.0	.7	.9	.6	-.3
55.0	.3	.0	-.1	.0	.5	.1	.0	.0	.0	.7	1.0	.6	-.3
56.0	.3	.0	-.1	.0	.6	.1	.0	.0	.0	.7	1.0	.6	-.4
57.0	.2	.0	-.1	.0	.6	.1	.0	.0	.0	.8	1.0	.6	-.4
58.0	.2	.0	-.1	.0	.6	.1	.0	.0	.0	.8	1.0	.6	-.5
59.0	.1	.0	-.1	.0	.6	.1	.0	.0	.0	.8	.9	.6	-.5
60.0	.1	.0	-.1	.0	.6	.1	.0	.0	.0	.8	.9	.6	-.5
61.0	.1	.0	-.1	.0	.6	.1	.0	.0	.0	.8	.9	.6	-.5
62.0	.2	.0	-.1	.0	.6	.1	.0	.0	.0	.7	.9	.6	-.5
63.0	.2	.0	-.1	.0	.5	.1	.0	.0	.0	.7	.9	.6	-.4
64.0	.1	.0	-.1	.0	.5	.1	.0	.0	.0	.7	.8	.6	-.4
65.0	.1	.0	-.1	.0	.5	.1	.0	.0	.0	.7	.8	.5	-.4
66.0	.1	.0	-.1	.0	.5	.1	.0	.0	.0	.7	.8	.5	-.4
67.0	.1	.0	-.1	.0	.5	.1	.0	.0	.0	.6	.7	.5	-.4
68.0	.1	.0	-.1	.0	.4	.1	.0	.0	.0	.6	.7	.5	-.4
69.0	.1	.0	-.1	.0	.4	.1	.0	.0	.0	.6	.7	.5	-.4
70.0	.1	.0	-.1	.0	.4	.1	.0	.0	.0	.6	.6	.5	-.4
71.0	.1	.0	-.1	.0	.4	.1	.0	.0	.0	.6	.6	.5	-.4
72.0	.0	.0	-.1	.0	.4	.1	.0	.0	.0	.6	.6	.4	-.4
73.0	.0	.0	-.1	.0	.3	.1	.0	.0	.0	.6	.6	.4	-.4
74.0	.0	.0	-.1	.0	.3	.1	.0	.0	.0	.6	.6	.4	-.4
75.0	.0	.0	-.1	.0	.3	.1	.0	.0	.0	.5	.6	.5	-.4
76.0	.0	.0	-.1	.0	.3	.1	.0	.0	.0	.6	.6	.5	-.5
77.0	.0	.0	-.1	.0	.2	.1	.0	.0	.0	.6	.6	.5	-.5
78.0	.0	.0	-.1	.0	.2	.1	-.1	.0	.0	.6	.6	.5	-.5
79.0	.0	.0	-.1	.0	.2	.2	-.1	.0	.0	.7	.6	.6	-.6
80.0	.0	.0	-.1	.0	.2	.2	-.1	.0	.0	.7	.7	.6	-.6
81.0	.0	.0	-.1	.0	.1	.2	-.1	.0	.0	.7	.8	.7	-.6
82.0	.0	.0	-.1	.0	.1	.2	-.1	.0	.0	.8	.8	.7	-.7
83.0	.0	.0	-.1	.0	.1	.2	-.1	.0	.0	.9	.9	.8	-.8
84.0	.0	.0	-.1	.0	.1	.2	-.1	.0	.0	.9	1.0	.9	-.8
85.0	.0	.0	-.1	.0	.1	.2	-.1	.0	.0	1.0	1.0	1.0	-.9
86.0	.0	.0	-.1	.0	.0	.2	-.1	.0	.0	1.1	1.1	1.0	-1.0
87.0	.0	.0	-.1	.0	.0	.2	-.1	.0	.0	1.1	1.1	1.1	-1.1
88.0	.0	.0	-.1	.0	.0	.2	-.1	.0	.0	1.2	1.2	1.1	-1.1
89.0	.0	.0	-.1	.0	.1	.2	-.1	.0	.0	1.2	1.1	1.1	-1.1
90.0	.0	.0	-.1	.0	.1	.2	-.1	.0	.0	1.3	1.2	1.0	-1.1
91.0	.0	.1	.0	.1	.2	.4	.0	.1	.1	1.1	1.2	1.0	-1.0
92.0	.1	-.2	-.2	-.1	.0	.3	-.1	.0	.0	1.1	1.2	1.2	-1.1
93.0	.3	-.1	-.1	.0	.1	.3	-.1	.0	.0	1.1	1.4	1.0	-.7
94.0	.4	.0	-.1	.0	.2	.3	-.1	.0	.0	1.1	1.5	1.0	-.6
95.0	.5	.0	-.1	.0	.1	.3	-.1	.0	.0	1.1	1.6	1.1	-.6
96.0	.4	.1	-.1	.0	.2	.3	-.1	.0	.0	1.2	1.6	1.1	-.6
97.0	.4	.1	-.1	.0	.2	.3	-.1	.0	.0	1.3	1.6	1.0	-.7
98.0	.3	.0	-.1	.0	.2	.4	-.1	.0	.0	1.3	1.6	1.0	-.7
99.0	.3	.0	-.1	.0	.2	.4	-.1	.0	.0	1.3	1.6	1.0	-.7

AERO/ENVIRONMENT

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	.2	.0	.0	.0	-.4	-.1	.0	.0	.0	.7	.8	.5	-.4
51.0	.2	.0	.0	.0	-.4	-.1	.0	.0	.0	.7	.8	.5	-.4
52.0	.2	.0	.0	.0	-.5	-.1	.0	.0	.0	.6	.8	.6	-.4
53.0	.2	.0	.0	.0	-.5	-.1	.0	.0	.0	.5	.9	.6	-.4
54.0	.3	.0	.0	.0	-.5	-.1	.0	.0	.0	.7	.9	.6	-.3
55.0	.3	.0	.0	.0	-.5	-.1	.0	.0	.0	.7	1.0	.6	-.3
56.0	.3	.0	.1	.0	-.5	-.1	.0	.0	.0	.7	1.0	.6	-.4
57.0	.2	.0	.1	.0	-.5	-.1	.0	.0	.0	.8	1.0	.6	-.4
58.0	.2	.0	.1	.0	-.5	-.1	.0	.0	.0	.8	1.0	.6	-.5
59.0	.1	.0	.1	.0	-.5	-.1	.0	.0	.0	.8	.9	.6	-.5
60.0	.1	.0	.1	.0	-.5	-.1	.0	.0	.0	.8	.9	.6	-.5
61.0	.1	.0	.1	.0	-.5	-.1	.0	.0	.0	.8	.9	.6	-.5
62.0	.2	.0	.1	.0	-.5	-.1	.0	.0	.0	.7	.9	.6	-.5
63.0	.2	.0	.1	.0	-.5	-.1	.0	.0	.0	.7	.9	.6	-.4
64.0	.1	.0	.1	.0	-.5	-.1	.0	.0	.0	.7	.8	.6	-.4
65.0	.1	.0	.1	.0	-.5	-.1	.0	.0	.0	.7	.8	.5	-.4
66.0	.1	.0	.1	.0	-.4	-.1	.0	.0	.0	.7	.8	.5	-.4
67.0	.1	.0	.1	.0	-.4	-.1	.0	.0	.0	.6	.7	.5	-.4
68.0	.1	.0	.1	.0	-.4	-.1	.0	.0	.0	.6	.7	.5	-.4
69.0	.1	.0	.1	.0	-.4	-.1	.0	.0	.0	.6	.7	.5	-.4
70.0	.1	.0	.1	.0	-.4	-.1	.0	.0	.0	.6	.6	.5	-.4
71.0	.1	.0	.1	.0	-.4	-.1	.0	.0	.0	.6	.6	.5	-.4
72.0	.0	.0	.1	.0	-.3	-.1	.0	.0	.0	.6	.6	.4	-.4
73.0	.0	.0	.1	.0	-.3	-.1	.0	.0	.0	.6	.6	.4	-.4
74.0	.0	.0	.1	.0	-.3	-.1	.0	.0	.0	.6	.6	.4	-.4
75.0	.0	.0	.1	.0	-.3	-.1	.0	.0	.0	.6	.6	.5	-.4
76.0	.0	.0	.1	.0	-.3	-.1	.0	.0	.0	.6	.6	.5	-.5
77.0	.0	.0	.1	.0	-.2	-.1	.1	.0	.0	.6	.6	.5	-.5
78.0	.0	.0	.1	.0	-.2	-.1	.1	.0	.0	.6	.6	.5	-.5
79.0	.0	.0	.1	.0	-.2	-.2	.1	.0	.0	.7	.6	.6	-.6
80.0	.0	.0	.1	.0	-.2	-.2	.1	.0	.0	.7	.7	.6	-.6
81.0	.0	.0	.1	.0	-.1	-.2	.1	.0	.0	.7	.8	.7	-.6
82.0	.0	.0	.1	.0	-.1	-.2	.1	.0	.0	.8	.8	.7	-.7
83.0	.0	.0	.1	.0	-.1	-.2	.1	.0	.0	.9	.9	.8	-.8
84.0	.0	.0	.1	.0	-.1	-.2	.1	.0	.0	.9	1.0	.9	-.8
85.0	.0	.0	.1	.0	-.1	-.2	.1	.0	.0	1.0	1.0	1.0	-.9
86.0	.0	.0	.1	.0	.0	-.2	.1	.0	.0	1.1	1.1	1.0	-1.0
87.0	.0	.0	.1	.0	.0	-.2	.1	.0	.0	1.1	1.1	1.1	-1.1
88.0	.0	.0	.1	.0	.0	-.2	.1	.0	.0	1.2	1.2	1.1	-1.1
89.0	.0	.0	.1	.0	.0	-.2	.1	.0	.0	1.2	1.1	1.1	-1.1
90.0	.0	.1	.2	.0	.0	-.2	.1	.0	.0	1.3	1.2	1.0	-1.1
91.0	.0	-.1	-.1	-.1	-.2	-.3	.1	.0	.1	1.1	1.2	1.0	-1.0
92.0	.1	.1	.1	.0	-.1	-.3	.1	.0	.0	1.1	1.2	1.2	-1.1
93.0	.3	.1	.1	.0	-.1	-.3	.1	.0	.0	1.1	1.4	1.0	-.7
94.0	.4	.0	.1	.0	-.1	-.3	.1	.0	.0	1.1	1.5	1.0	-.6
95.0	.5	.0	.1	.0	-.1	-.3	.1	.0	.0	1.1	1.6	1.1	-.6
96.0	.4	.0	.1	.0	-.1	-.3	.1	.0	.0	1.2	1.6	1.1	-.6
97.0	.4	.0	.1	.0	-.2	-.3	.1	.0	.0	1.3	1.6	1.0	-.7
98.0	.3	.0	.1	.0	-.2	-.3	.1	.0	.0	1.3	1.6	1.0	-.7
99.0	.3	.0	.1	.0	-.2	-.4	.1	.0	.0	1.3	1.6	1.0	-.7

AERO/ENVIRONMENT

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	.3	.0	.0	.0	.2	.4	-.1	.0	.0	1.3	1.6	1.0	-.7
101.0	.3	.1	.0	.0	.2	.4	.0	.0	.0	1.3	1.6	1.0	-.8
102.0	.2	.0	.0	.0	.2	.4	.0	.0	.0	1.3	1.6	1.0	-.8
103.0	.2	.0	.0	.0	.3	.4	.0	.0	.0	1.3	1.6	1.0	-.8
104.0	.3	.0	.0	.1	.3	.4	.0	.0	.0	1.3	1.6	1.0	-.7
105.0	.3	.0	.0	.1	.3	.4	.0	.0	.1	1.3	1.6	1.0	-.7
106.0	.3	.0	.0	.1	.3	.4	.0	.0	.1	1.3	1.6	1.0	-.7
107.0	.3	.0	.0	.1	.3	.4	.0	.0	.1	1.3	1.6	1.0	-.7
108.0	.3	.0	.0	.1	.3	.4	.0	.0	.1	1.3	1.6	1.0	-.7
109.0	.3	.0	.0	.1	.3	.4	.0	.0	.0	1.5	1.8	1.2	-.9
110.0	.3	.0	.0	.1	.3	.4	.0	.0	.0	2.5	2.8	2.4	-2.1
111.0	.4	.0	.0	.1	.4	.4	.0	.0	.0	3.6	3.9	3.5	-3.2
112.0	.4	.0	.0	.1	.4	.4	.0	.0	.0	4.1	4.6	4.1	-3.7
113.0	.5	.0	.0	.1	.4	.4	.0	.0	.0	4.2	4.6	4.2	-3.7
114.0	.5	.0	.0	.1	.4	.4	.0	.0	.0	3.6	4.1	3.6	-3.1
115.0	.5	.0	.1	.1	.5	.4	.0	.0	.1	2.9	3.4	3.0	-2.5
116.0	.5	-.1	.1	.1	.5	.4	.0	.0	.1	2.1	2.6	2.1	-1.6
117.0	.5	-.1	.1	.1	.5	.4	.0	.0	.1	1.3	1.8	1.3	-.8
118.0	.4	-.1	.1	.1	.4	.4	.0	.0	.1	1.0	1.5	1.0	-.6
119.0	.4	-.1	.1	.1	.3	.4	.0	.0	.1	1.1	1.5	1.0	-.6
120.0	.4	-.1	.1	.1	.3	.4	.0	.0	.1	1.3	1.7	1.3	-.9
121.0	.3	.0	.1	.1	.3	.4	.0	.0	.1	1.6	1.9	1.6	-1.3
122.0	.3	-.1	.0	.0	.2	.4	-.1	.0	.0	1.7	1.9	1.7	-1.5
123.0	.2	.0	.0	.0	.2	.3	-.1	.0	.0	1.6	1.8	1.7	-1.4
124.0	.2	.0	-.1	.0	.1	.3	-.1	.0	.0	1.5	1.7	1.6	-1.5
125.0	.1	.0	-.1	.0	.1	.3	-.1	.0	.0	1.4	1.5	1.6	-1.5
126.0	.1	-.1	-.1	.0	.1	.3	-.1	.0	.0	1.4	1.5	1.6	-1.5
127.0	.0	-.1	-.1	.0	.1	.3	-.1	.0	.0	1.4	1.4	1.6	-1.5
128.0	.0	-.1	-.1	.0	.1	.3	-.1	.0	.0	1.4	1.4	1.6	-1.6
129.0	-.1	-.1	-.1	.0	.1	.3	-.1	.0	.0	1.4	1.3	1.6	-1.7
130.0	-.1	-.1	-.1	.0	.1	.3	-.1	.0	.0	1.4	1.3	1.6	-1.7
140.0	-.9	-.1	-.1	-.1	.1	.3	-.1	.0	.0	1.6	.7	1.1	-2.0
150.0	-.5	-.2	-.1	-.1	.0	.3	-.1	.0	.0	1.5	.9	1.3	-1.8
160.0	-.6	-.1	-.1	.0	.1	.3	-.1	.0	.0	1.5	.9	1.2	-1.8
170.0	-.7	-.1	-.1	.0	.1	.3	-.1	.0	.0	1.4	.7	1.1	-1.8
180.0	-.8	-.1	-.1	.0	.1	.2	-.1	.0	.0	1.4	.6	1.1	-1.9
190.0	-1.0	-.1	-.1	.0	.1	.2	-.1	.0	.0	1.4	.4	1.0	-2.0
200.0	-1.1	-.1	-.1	.0	.1	.2	-.1	.0	.0	1.4	.3	1.0	-2.0
210.0	-1.2	-.1	-.1	.0	.1	.3	.0	.0	.0	1.4	.2	.9	-2.1
220.0	-1.3	-.1	-.1	.0	.1	.4	.0	.0	.0	1.5	.2	.9	-2.1
230.0	-1.4	-.1	-.1	.0	.1	.5	.0	.0	.0	1.5	.2	.8	-2.1
240.0	-1.4	-.1	-.1	.0	.1	.6	.0	.0	.0	1.6	.2	.7	-2.1
250.0	-1.5	.0	.0	.0	.1	.6	.0	.0	.0	1.7	.2	.6	-2.2
260.0	-1.6	.0	.0	.0	.2	.7	.0	.0	.0	1.9	.3	.6	-2.2
270.0	-1.7	.2	.0	.0	.3	.7	.0	.0	.0	2.0	.4	.6	-2.2
280.0	-1.8	.3	.0	.0	.5	.8	.0	.0	.0	2.2	.5	.5	-2.3
290.0	-1.8	.4	.0	.0	.6	.9	.0	.1	.0	2.5	.7	.5	-2.3
300.0	-1.9	.5	.0	.0	.6	.9	.0	.1	.0	2.8	.9	.5	-2.3
310.0	-1.9	.6	-.1	.1	.7	.9	-.1	.4	.1	2.8	1.0	.6	-2.5
320.0	-1.7	.5	-.1	.1	.6	.8	-.2	.3	.1	2.4	.7	1.0	-2.8

AERO/ENVIRONMENT

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	.3	.0	.0	.0	-.2	-.4	.1	.0	.0	1.3	1.6	1.0	-.7
101.0	.3	.0	.0	.0	-.2	-.4	.1	.0	.0	1.3	1.6	1.0	-.8
102.0	.3	.0	.0	.0	-.2	-.4	.1	.0	.0	1.3	1.6	1.0	-.8
103.0	.2	.0	.0	.0	-.2	-.4	.1	.0	.0	1.3	1.6	1.0	-.8
104.0	.3	.0	.0	.0	-.2	-.4	.1	.0	.0	1.3	1.6	1.0	-.7
105.0	.3	.0	.0	.0	-.3	-.4	.1	.0	.0	1.3	1.6	1.0	-.7
106.0	.3	.0	.0	-.1	-.3	-.4	.1	.0	.0	1.3	1.6	1.0	-.7
107.0	.3	.0	.0	.0	-.3	-.4	.1	.0	.0	1.3	1.6	1.0	-.7
108.0	.3	.0	.0	.0	-.3	-.4	.1	.0	.0	1.3	1.6	1.0	-.7
109.0	.3	.0	.0	.0	-.3	-.4	.1	.0	.0	1.5	1.8	1.2	-.9
110.0	.3	.0	.0	.0	-.3	-.4	.1	.0	.0	2.5	2.8	2.4	-2.1
111.0	.4	.1	.0	.0	-.3	-.4	.1	.0	.0	3.6	3.9	3.5	-3.2
112.0	.4	.1	.0	.0	-.3	-.4	.1	.0	.0	4.1	4.6	4.1	-3.7
113.0	.5	.1	.0	.0	-.3	-.4	.1	.0	.0	4.2	4.6	4.2	-3.7
114.0	.5	.1	.0	-.1	-.4	-.4	.1	.1	.0	3.6	4.1	3.6	-3.1
115.0	.5	.1	.0	-.1	-.4	-.4	.1	.1	.0	2.9	3.4	3.0	-2.5
116.0	.5	.1	-.1	-.1	-.4	-.4	.1	.1	.0	2.1	2.6	2.1	-1.6
117.0	.5	.1	-.1	-.1	-.4	-.4	.1	.1	.0	1.3	1.8	1.3	-.8
118.0	.4	.1	-.1	-.1	-.4	-.4	.1	.1	.0	1.0	1.5	1.0	-.6
119.0	.4	.1	.0	-.1	-.3	-.4	.1	.1	.0	1.1	1.5	1.0	-.6
120.0	.4	.0	.0	-.1	-.3	-.4	.1	.1	.0	1.3	1.7	1.3	-.9
121.0	.3	-.1	.0	-.1	-.2	-.4	.1	.0	.0	1.6	1.9	1.6	-1.3
122.0	.2	-.2	.0	-.1	-.2	-.4	.1	-.1	.0	1.7	1.9	1.7	-1.5
123.0	.2	-.3	.0	-.1	-.2	-.4	.1	-.1	.0	1.6	1.8	1.7	-1.4
124.0	.2	-.3	.0	-.1	-.2	-.3	.1	-.1	.0	1.5	1.7	1.6	-1.5
125.0	.1	-.3	.0	-.1	-.2	-.3	.1	-.1	.0	1.4	1.5	1.6	-1.5
126.0	.1	-.3	.0	.0	-.2	-.3	.1	-.1	.0	1.4	1.5	1.6	-1.5
127.0	.0	-.3	.0	.0	-.2	-.3	.1	-.1	.0	1.4	1.4	1.6	-1.5
128.0	.0	-.3	.0	.0	-.2	-.3	.1	-.1	.0	1.4	1.4	1.6	-1.6
129.0	-.1	-.3	.0	.0	-.2	-.3	.1	-.1	.0	1.4	1.3	1.6	-1.7
130.0	-.1	-.3	.0	.0	-.2	-.3	.1	-.1	.0	1.4	1.3	1.6	-1.7
140.0	-.9	-.2	.1	.0	-.1	-.3	.1	-.1	.0	1.6	.7	1.1	-2.0
150.0	-.5	-.2	.0	.0	-.1	-.3	.1	-.1	.0	1.5	.9	1.3	-1.8
160.0	-.6	-.2	.0	.0	-.2	-.3	.1	-.1	.0	1.5	.9	1.2	-1.8
170.0	-.7	-.2	.0	.0	-.1	-.3	.1	-.1	.0	1.4	.7	1.1	-1.8
180.0	-.8	-.2	.0	.0	-.1	-.3	.1	-.1	.0	1.4	.6	1.1	-1.9
190.0	-1.0	-.2	.0	.0	-.1	-.2	.1	-.1	.0	1.4	.4	1.0	-2.0
200.0	-1.1	-.2	.0	.0	-.1	-.2	.1	-.1	.0	1.4	.3	1.0	-2.0
210.0	-1.2	-.2	.0	.0	-.1	-.2	.1	-.1	.0	1.4	.2	.9	-2.1
220.0	-1.3	-.2	.0	.0	-.1	-.2	.0	-.1	.0	1.5	.2	.9	-2.1
230.0	-1.4	-.2	.0	.0	-.1	-.2	.0	-.1	.0	1.5	.2	.8	-2.1
240.0	-1.4	-.2	.0	.0	-.1	-.2	.0	-.1	.0	1.6	.2	.7	-2.1
250.0	-1.5	-.2	.0	.0	-.1	-.2	.0	-.1	.0	1.7	.2	.6	-2.2
260.0	-1.6	-.1	.0	.0	-.1	-.2	.0	-.1	.0	1.9	.3	.6	-2.2
270.0	-1.7	.0	.0	.0	-.1	-.2	.0	-.1	.0	2.0	.4	.6	-2.2
280.0	-1.8	.2	.0	.0	-.1	-.2	.0	-.1	.0	2.2	.5	.5	-2.3
290.0	-1.8	.3	.1	.0	-.1	-.1	.0	.0	.0	2.5	.7	.5	-2.3
300.0	-1.9	.5	.3	.2	-.1	-.1	.1	.2	.1	2.8	.9	.5	-2.3
310.0	-1.9	.5	.4	.3	-.1	-.2	.2	.3	.2	2.8	1.0	.6	-2.5
320.0	-1.7	.5	.3	.2	-.3	-.4	.2	.3	.2	2.4	.7	1.0	-2.8

AERO/ENVIRONMENT

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-1.6	.4	-.1	.1	.5	.6	-.2	.3	.1	2.0	.4	1.4	-3.1
340.0	-1.5	.3	-.1	.1	.4	.5	-.1	.2	.0	1.6	.1	1.8	-3.3
350.0	-1.4	.3	.0	.1	.3	.4	-.1	.2	.0	1.3	-.1	2.1	-3.6
360.0	-1.3	.2	.0	.1	.3	.3	-.1	.1	.0	1.0	-.3	2.5	-3.8
370.0	-1.2	.1	.0	.1	.2	.2	-.1	.1	.0	.7	-.5	2.8	-4.0
380.0	-1.1	.1	.0	.0	.1	.1	.0	.1	.0	.4	-.7	3.1	-4.2
390.0	-1.0	.0	.0	.0	.1	.0	.0	.0	.0	.3	-.8	3.3	-4.3
400.0	-.9	.0	.0	.0	.0	-.1	.0	.0	.0	.1	-.8	3.5	-4.4
410.0	-.8	-.1	.0	.0	-.1	-.2	.0	.0	.0	.1	-.7	3.6	-4.4
420.0	-.7	-.1	.0	.0	-.1	-.3	.0	-.1	.0	.1	-.6	3.7	-4.5
430.0	-.7	-.2	.1	.0	-.2	-.3	.1	-.1	.0	.2	-.5	3.8	-4.5
440.0	-.6	-.2	.1	.0	-.2	-.4	.1	-.1	.0	.4	-.2	3.8	-4.4
450.0	-.5	-.2	.1	.0	-.3	-.5	.1	-.1	.0	.6	.0	3.3	-3.8
460.0	-.4	-.3	.1	.0	-.3	-.6	.1	-.1	.0	1.7	1.2	3.4	-3.8
470.0	-.3	-.3	.1	.0	-.4	-.6	.1	-.2	.0	4.0	3.7	3.5	-3.8
480.0	-.4	-.4	.1	.0	-.4	-.7	.1	-.2	.0	5.4	5.1	3.0	-3.4

AERO/ENVIRONMENT

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-1.6	.4	.2	.2	-.5	-.5	.1	.2	.2	2.0	.4	1.4	-3.1
340.0	-1.5	.3	.2	.2	-.5	-.7	.1	.2	.1	1.6	.1	1.8	-3.3
350.0	-1.4	.3	.2	.1	-.4	-.8	.1	.2	.1	1.3	-.1	2.1	-3.6
360.0	-1.3	.2	.1	.1	-.4	-.9	.1	.1	.1	1.0	-.3	2.5	-3.8
370.0	-1.2	.2	.1	.1	-.3	-1.1	.1	.1	.1	.7	-.5	2.8	-4.0
380.0	-1.1	.2	.1	.0	-.2	-1.2	.0	.1	.0	.4	-.7	3.1	-4.2
390.0	-1.0	.1	.0	.0	-.1	-1.3	.0	.1	.0	.3	-.8	3.3	-4.3
400.0	-.9	.1	.0	.0	-.1	-1.4	.0	.0	.0	.1	-.8	3.5	-4.4
410.0	-.8	.0	.0	.0	.0	-1.5	.0	.0	.0	.1	-.7	3.6	-4.4
420.0	-.7	.0	-.1	.0	.1	-1.5	.0	.0	.0	.1	-.6	3.7	-4.5
430.0	-.7	.0	-.1	-.1	.1	-1.3	-.1	.0	.0	.2	-.5	3.8	-4.5
440.0	-.6	-.1	-.1	-.1	.2	-1.3	-.1	.0	-.1	.4	-.2	3.8	-4.4
450.0	-.5	-.1	-.1	-.1	.2	-1.2	-.1	-.1	-.1	.6	.0	3.3	-3.8
460.0	-.4	-.1	-.2	-.1	.3	-1.1	-.1	-.1	-.1	1.7	1.2	3.4	-3.8
470.0	-.3	-.2	-.2	-.1	.3	-1.1	-.1	-.1	-.1	4.0	3.7	3.5	-3.8
480.0	-.4	-.2	-.2	-.2	.4	-.9	-.1	-.1	-.1	5.4	5.1	3.0	-3.4

MASS PROPERTIES

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	-19.7	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.8	-18.0	1.9	-21.6
2.0	-8.5	.0	.0	.0	.0	.0	.1	.0	.0	.0	.8	-7.7	.8	-9.3
3.0	-5.4	.0	.0	.0	.0	.0	.1	.0	.0	.0	.7	-4.6	.6	-6.0
4.0	-3.9	.0	.0	.0	.0	.0	.1	.0	.0	.0	.8	-3.1	.7	-4.6
5.0	-3.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.8	-2.2	.7	-3.8
6.0	-2.5	.0	.0	.0	.0	.0	.1	.0	.0	.0	.8	-1.7	.8	-3.3
7.0	-2.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	.8	-1.3	.8	-2.9
8.0	-2.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.8	-1.3	.8	-2.9
9.0	-2.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.8	-1.3	.8	-2.8
10.0	-1.5	.0	.1	.0	.0	.0	.1	.0	.0	.0	.9	-.6	.7	-2.3
11.0	-.9	.0	.1	.0	.0	.0	.1	.0	.0	.0	.9	.0	.7	-1.6
12.0	-.3	.0	.1	.0	.0	.0	.1	.0	.0	.0	.9	.6	.7	-1.0
13.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.9	1.0	.7	-.6
14.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.3	.7	-.3
15.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.4	.7	-.2
16.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.4	.8	-.2
17.0	.4	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.8	1.2	.8	-.4
18.0	.2	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.7	-.7
20.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.5
21.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.6	-.4
22.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.4
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6	.4	-.4
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6	.4	-.3
26.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6	.4	-.3
27.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6	.4	-.3
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.7	.5	-.3
29.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.7	.5	-.3
30.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.3
31.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
32.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
33.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.6	-.4
34.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
35.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.5
36.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.7	-.5
37.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.9	.7	-.5
38.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.7	-.5
39.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.9	.7	-.5
40.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.9	.7	-.5
41.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.5
42.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.5
43.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.6	-.4
44.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
45.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
46.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
47.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
48.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.3
49.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.3

MASS PROPERTIES

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	-19.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.8	-18.0	1.9	-21.6
2.0	-8.5	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.8	-7.7	.8	-9.3
3.0	-5.4	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.7	-4.6	.6	-6.0
4.0	-3.9	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.8	-3.1	.7	-4.6
5.0	-3.1	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.8	-2.2	.7	-3.8
6.0	-2.5	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.8	-1.7	.8	-3.3
7.0	-2.2	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.8	-1.3	.8	-2.9
8.0	-2.1	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.8	-1.3	.8	-2.9
9.0	-2.1	.0	.0	.0	.0	.0	-.1	.0	.0	.0	.8	-1.3	.8	-2.8
10.0	-1.5	.1	.0	.0	.0	.0	-.1	.0	.0	.0	.9	-.6	.7	-2.3
11.0	-.9	.1	.0	.0	.0	.0	-.1	.0	.0	.0	.9	.0	.7	-1.6
12.0	-.3	.1	.0	.0	.0	.0	-.1	.0	.0	.0	.9	.6	.7	-1.0
13.0	.1	.1	.0	.0	.0	.0	-.1	.0	.0	.0	.9	1.0	.7	-.6
14.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.3	.7	-.3
15.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.4	.7	-.2
16.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.4	.8	-.2
17.0	.4	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.2	.8	-.4
18.0	.2	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.7	-.7
20.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.5
21.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.6	-.4
22.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
23.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.4
24.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6	.4	-.4
25.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6	.4	-.3
26.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6	.4	-.3
27.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6	.4	-.3
28.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.7	.5	-.3
29.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.7	.5	-.3
30.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.3
31.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
32.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
33.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.6	-.4
34.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
35.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.5
36.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.7	-.5
37.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.9	.7	-.5
38.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.7	-.5
39.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.9	.7	-.5
40.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.9	.7	-.5
41.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.5
42.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.5
43.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.6	-.4
44.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
45.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
46.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
47.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
48.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.3
49.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.3

MASS PROPERTIES

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
51.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
52.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.6	-.4
53.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.6	-.4
54.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.3
55.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.3
56.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.4
57.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.6	-.4
58.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.6	-.5
59.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.9	.6	-.5
60.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.9	.6	-.5
61.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.9	.6	-.5
62.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.5
63.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.4
64.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
65.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
66.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
67.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
68.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
69.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
70.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.4
71.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.4
72.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.4	-.4
73.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.4	-.4
74.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.4	-.4
75.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.4
76.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.5
77.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.5
78.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.5
79.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.6	.6	-.6
80.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.6	-.6
81.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.7	-.6
82.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.7	-.7
83.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9	.8	-.8
84.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.0	.9	-.8
85.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	1.0	-.9
86.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	1.0	-1.0
87.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	1.1	-1.1
88.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.2	1.1	-1.1
89.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.1	1.1	-1.1
90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.2	1.0	-1.1
91.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-1.0
92.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.2	-1.1
93.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.4	1.0	-.7
94.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.5	1.0	-.6
95.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.6	1.1	-.6
96.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.6	1.1	-.6
97.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
98.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
99.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7

MASS PROPERTIES

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
51.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
52.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.8	.6	-.4
53.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.6	-.4
54.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.3
55.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.3
56.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.4
57.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.6	-.4
58.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.6	-.5
59.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.9	.6	-.5
60.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.9	.6	-.5
61.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.9	.6	-.5
62.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.5
63.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.4
64.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
65.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
66.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
67.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
68.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
69.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
70.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.4
71.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.4
72.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.4	-.4
73.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.4	-.4
74.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.4	-.4
75.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.4
76.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.5
77.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.5
78.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.5
79.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.6	.6	-.6
80.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.6	-.6
81.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.8	.7	-.6
82.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.7	-.7
83.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9	.8	-.8
84.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.0	.9	-.8
85.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	1.0	-.9
86.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	1.0	-1.0
87.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	1.1	-1.1
88.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.2	1.1	-1.1
89.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.1	1.1	-1.1
90.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.2	1.0	-1.1
91.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.0	-1.0
92.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.2	1.2	-1.1
93.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.4	1.0	-.7
94.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.5	1.0	-.6
95.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.6	1.1	-.6
96.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.6	1.1	-.6
97.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
98.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
99.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7

MASS PROPERTIES

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
101.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.8
102.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.8
103.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.8
104.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
105.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
106.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
107.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
108.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
109.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.8	1.2	-.9
110.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	2.8	2.4	-2.1
111.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	3.9	3.5	-3.2
112.0	.4	.0	.0	.0	.0	.0	.1	.0	.0	.0	4.1	4.6	4.1	-3.7
113.0	.5	.0	.0	.0	.0	.0	.1	.0	.0	.0	4.2	4.6	4.2	-3.7
114.0	.5	.0	.0	.0	.0	.0	.1	.0	.0	.0	3.6	4.1	3.6	-3.1
115.0	.5	.0	.0	.0	.0	.0	.1	.0	.0	.0	2.9	3.4	3.0	-2.5
116.0	.5	.0	.0	.0	.0	.0	.1	.0	.0	.0	2.1	2.6	2.1	-1.6
117.0	.5	.0	.0	.0	.0	.0	.1	.0	.0	.0	1.3	1.8	1.3	-.8
118.0	.4	.0	.0	.0	.0	.0	.1	.0	.0	.0	1.0	1.5	1.0	-.6
119.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.5	1.0	-.6
120.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.7	1.3	-.9
121.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.9	1.6	-1.3
122.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.9	1.7	-1.5
123.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.8	1.7	-1.4
124.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.7	1.6	-1.5
125.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.5	1.6	-1.5
126.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.5	1.6	-1.5
127.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.4	1.6	-1.5
128.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.4	1.6	-1.6
129.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.3	1.6	-1.7
130.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.3	1.6	-1.7
140.0	-.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.7	1.1	-2.0
150.0	-.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.9	1.3	-1.8
160.0	-.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.9	1.2	-1.8
170.0	-.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.7	1.1	-1.8
180.0	-.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.6	1.1	-1.9
190.0	-1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.4	1.0	-2.0
200.0	-1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.3	1.0	-2.0
210.0	-1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.2	.9	-2.1
220.0	-1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.2	.9	-2.1
230.0	-1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.2	.8	-2.1
240.0	-1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.2	.7	-2.1
250.0	-1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.2	.6	-2.2
260.0	-1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.3	.6	-2.2
270.0	-1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.4	.6	-2.2
280.0	-1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.5	.5	-2.3
290.0	-1.8	.0	.0	.0	.0	.0	.1	.0	.0	.0	2.5	.7	.5	-2.3
300.0	-1.9	.2	.0	.0	.0	.0	.1	.0	.0	.0	2.8	.9	.5	-2.3
310.0	-1.9	.3	.0	.0	.0	.0	.1	.0	.0	.0	2.8	1.0	.6	-2.5
320.0	-1.7	.2	.0	.0	.0	.0	.1	.0	.0	.0	2.4	.7	1.0	-2.8

MASS PROPERTIES

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
101.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.8
102.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.8
103.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.8
104.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
105.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
106.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
107.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
108.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.3	1.6	1.0	-.7
109.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.8	1.2	-.9
110.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	2.8	2.4	-2.1
111.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	3.9	3.5	-3.2
112.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	4.6	4.1	-3.7
113.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	4.6	4.2	-3.7
114.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	3.6	4.1	3.6	-3.1
115.0	.5	.1	.0	.0	.0	.0	-.1	.0	.0	.0	2.9	3.4	3.0	-2.5
116.0	.5	.1	.0	.0	.0	.0	-.1	.0	.0	.0	2.1	2.6	2.1	-1.6
117.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.8	1.3	-.8
118.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.5	1.0	-.6
119.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.5	1.0	-.6
120.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.7	1.3	-.9
121.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.9	1.6	-1.3
122.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.9	1.7	-1.5
123.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.8	1.7	-1.4
124.0	.2	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.7	1.6	-1.5
125.0	.1	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.5	1.6	-1.5
126.0	.1	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.5	1.6	-1.5
127.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.4	1.6	-1.5
128.0	.0	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.4	1.6	-1.6
129.0	-.1	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.3	1.6	-1.7
130.0	-.1	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.3	1.6	-1.7
140.0	-.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.7	1.1	-2.0
150.0	-.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.9	1.3	-1.8
160.0	-.6	-.1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.9	1.2	-1.8
170.0	-.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.7	1.1	-1.8
180.0	-.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.6	1.1	-1.9
190.0	-1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.4	1.0	-2.0
200.0	-1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.3	1.0	-2.0
210.0	-1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.2	.9	-2.1
220.0	-1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.2	.9	-2.1
230.0	-1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.2	.8	-2.1
240.0	-1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.2	.7	-2.1
250.0	-1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.2	.6	-2.2
260.0	-1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.3	.6	-2.2
270.0	-1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.4	.6	-2.2
280.0	-1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.5	.5	-2.3
290.0	-1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.7	.5	-2.3
300.0	-1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.9	.5	-2.3
310.0	-1.9	.1	.1	.0	.0	.0	-.1	.0	.0	.0	2.8	1.0	.6	-2.5
320.0	-1.7	.1	.1	.0	.0	.0	-.2	.0	.0	.0	2.4	.7	1.0	-2.8

MASS PROPERTIES

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-1.6	.2	.0	.0	.0	.0	.3	.0	.0	.0	2.0	.4	1.4	-3.1
340.0	-1.5	.2	.0	.0	.0	.0	.2	.0	.0	.0	1.6	.1	1.8	-3.3
350.0	-1.4	.1	.0	.0	.0	.0	.2	.0	.0	.0	1.3	-.1	2.1	-3.6
360.0	-1.3	.1	.0	.0	.0	.0	.1	.0	.0	.0	1.0	-.3	2.5	-3.8
370.0	-1.2	.1	.0	.0	.0	.0	.1	.0	.0	.0	.7	-.5	2.8	-4.0
380.0	-1.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.4	-.7	3.1	-4.2
390.0	-1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	-.8	3.3	-4.3
400.0	-.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	-.8	3.5	-4.4
410.0	-.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	-.7	3.6	-4.4
420.0	-.7	-.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	-.6	3.7	-4.5
430.0	-.7	-.1	.0	.0	.0	.0	-.1	.0	.0	.0	.2	-.5	3.8	-4.5
440.0	-.6	-.1	.0	.0	.0	.0	-.1	.0	.0	.0	.4	-.2	3.8	-4.4
450.0	-.5	-.1	.0	.0	.0	.0	-.1	.0	.0	.0	.6	.0	3.3	-3.8
460.0	-.4	-.2	.0	.0	.0	.0	-.1	.0	.0	.0	1.7	1.2	3.4	-3.8
470.0	-.3	-.2	.0	.0	.0	.0	-.2	.0	.0	.0	4.0	3.7	3.5	-3.8
480.0	-.4	-.2	.0	.0	.0	.0	-.2	.0	.0	.0	5.4	5.1	3.0	-3.4

MASS PROPERTIES

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	9	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-1.4	.1	.1	.0	.0	.0	-.4	.0	.0	.0	2.0	.4	1.4	-3.1
340.0	-1.5	.1	.0	.0	.0	.0	-.4	.0	.0	.0	1.6	.1	1.8	-3.3
350.0	-1.4	.1	.0	.0	.0	.0	-.3	.0	.0	.0	1.3	-.1	2.1	-3.6
360.0	-1.3	.1	.0	.0	.0	.0	-.3	.0	.0	.0	1.0	-.3	2.5	-3.8
370.0	-1.2	.1	.0	.0	.0	.0	-.2	.0	.0	.0	.7	-.5	2.8	-4.0
380.0	-1.1	.1	.0	.0	.0	.0	-.2	.0	.0	.0	.4	-.7	3.1	-4.2
390.0	-1.0	.1	.0	.0	.0	.0	-.1	.0	.0	.0	.3	-.8	3.3	-4.3
400.0	-.9	.1	.0	.0	.0	.0	-.1	.0	.0	.0	.1	-.8	3.5	-4.4
410.0	-.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	-.7	3.6	-4.4
420.0	-.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	-.6	3.7	-4.5
430.0	-.7	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	-.5	3.8	-4.5
440.0	-.6	.0	.0	.0	.0	.0	.1	.0	.0	.0	.4	-.2	3.8	-4.4
450.0	-.5	.0	.0	.0	.0	.0	.2	.0	.0	.0	.6	.0	3.3	-3.8
460.0	-.4	.0	.0	.0	.0	.0	.2	.0	.0	.0	1.7	1.2	3.4	-3.8
470.0	-.3	.0	.0	.0	.0	.0	.2	.0	.0	.0	4.0	3.7	3.5	-3.8
480.0	-.4	.0	.0	.0	.0	.0	.3	.0	.0	.0	5.4	5.1	3.0	-3.4

GN/C

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	-19.7	.0	.0	.0	.0	.6	.0	.0	.0	1.8	-18.0	1.9	-21.6
2.0	-8.5	.0	.0	.0	.0	.0	.0	.0	.0	.8	-7.7	.8	-9.3
3.0	-5.4	.0	.0	.0	.0	-.2	.0	.0	.0	.7	-4.6	.6	-6.0
4.0	-3.9	.0	.0	.0	.0	-.4	.0	.0	.0	.8	-3.1	.7	-4.6
5.0	-3.1	.0	.0	.0	.0	-.4	.0	.0	.0	.8	-2.2	.7	-3.8
6.0	-2.5	.0	.0	.0	.0	-.4	.0	.0	.0	.8	-1.7	.8	-3.3
7.0	-2.2	.0	.0	.0	.0	-.4	.0	.0	.0	.8	-1.3	.8	-2.9
8.0	-2.1	.0	.0	.0	.0	-.4	.0	.0	.0	.8	-1.3	.8	-2.9
9.0	-2.1	.0	.0	.0	.0	-.4	.0	.0	.0	.8	-1.3	.8	-2.8
10.0	-1.5	.0	.0	.0	.0	-.4	.0	.0	.0	.9	-.6	.7	-2.3
11.0	-.9	.0	.0	.0	.1	-.3	.0	.0	.0	.9	.0	.7	-1.6
12.0	-.3	.0	.0	.0	.1	-.3	.0	.0	.0	.9	.6	.7	-1.0
13.0	.1	.0	.0	.0	.1	-.2	.0	.0	.0	.9	1.0	.7	-.6
14.0	.4	.0	.0	.0	.1	-.1	.0	.0	.0	.9	1.3	.7	-.3
15.0	.6	.0	.0	.0	.0	-.1	.0	.0	.0	.8	1.4	.7	-.2
16.0	.6	.0	.0	.1	.0	.0	.0	.0	.0	.8	1.4	.8	-.2
17.0	.4	.0	.0	.1	.0	.0	.0	.0	.0	.8	1.2	.8	-.4
18.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
19.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.8	.8	.7	-.7
20.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.7	.8	.6	-.5
21.0	.1	.0	.0	.1	-.1	.0	.0	.0	.0	.6	.8	.6	-.4
22.0	.1	.0	.0	.1	-.1	.0	.0	.0	.0	.6	.7	.5	-.4
23.0	.1	.0	.0	.1	-.1	.0	.0	.0	.0	.6	.6	.5	-.4
24.0	.1	.0	.0	.1	-.1	.0	.0	.0	.0	.5	.6	.4	-.4
25.0	.1	.0	.0	.0	-.1	.0	.0	.0	.0	.5	.6	.4	-.3
26.0	.2	.0	.1	.0	-.1	.0	.0	.0	.0	.5	.6	.4	-.3
27.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.5	.6	.4	-.3
28.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.5	.7	.5	-.3
29.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.5	.7	.5	-.3
30.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.3
31.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
32.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
33.0	.1	.0	.4	.0	.0	.0	.0	.0	.0	.6	.8	.6	-.4
34.0	.1	.0	.4	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
35.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.5
36.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.7	.9	.7	-.5
37.0	.2	.1	.4	.0	.0	.0	.0	.0	.0	.8	.9	.7	-.5
38.0	.2	.1	.5	.0	.0	.0	.0	.0	.0	.8	1.0	.7	-.5
39.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.8	.9	.7	-.5
40.0	.1	.0	.4	.0	.0	.0	.0	.0	.0	.8	.9	.7	-.5
41.0	.1	.0	.4	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.5
42.0	.1	.0	.4	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.5
43.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.6	.7	.6	-.4
44.0	.1	.1	.3	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
45.0	.2	.1	.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
46.0	.2	.1	.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
47.0	.2	.1	.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
48.0	.2	.1	.3	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.3
49.0	.2	.1	.3	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.3

GN/C

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1.0	-19.7	.0	.0	.0	.0	-.6	.0	.0	.0	1.8	-18.0	1.9	-21.6
2.0	-8.5	.0	.0	.0	.0	.0	.0	.0	.0	.8	-7.7	.8	-9.3
3.0	-5.4	.0	.0	.0	.0	.2	.0	.0	.0	.7	-4.6	.6	-6.0
4.0	-3.9	.0	.0	.0	.0	.4	.0	.0	.0	.8	-3.1	.7	-4.6
5.0	-3.1	.0	.0	.0	.0	.4	.0	.0	.0	.8	-2.2	.7	-3.8
6.0	-2.5	.0	.0	.0	.0	.4	.0	.0	.0	.8	-1.7	.8	-3.3
7.0	-2.2	.0	.0	.0	.0	.4	.0	.0	.0	.8	-1.3	.8	-2.9
8.0	-2.1	.0	.0	.0	.0	.4	.0	.0	.0	.8	-1.3	.8	-2.9
9.0	-2.1	.0	.0	.0	.0	.4	.0	.0	.0	.8	-1.3	.8	-2.8
10.0	-1.5	.0	.0	.0	.0	.4	.0	.0	.0	.9	-.6	.7	-2.3
11.0	-.9	.0	.0	.0	-.1	.3	.0	.0	.0	.9	.0	.7	-1.6
12.0	-.3	.0	.0	.0	-.1	.3	.0	.0	.0	.9	.6	.7	-1.0
13.0	.1	.0	.0	.0	-.1	.2	.0	.0	.0	.9	1.0	.7	-.6
14.0	.4	.0	.0	.0	-.1	.1	.0	.0	.0	.8	1.3	.7	-.3
15.0	.6	.0	.0	.0	.0	.1	.0	.0	.0	.8	1.4	.7	-.2
16.0	.6	.0	.0	-.1	.0	.0	.0	.0	.0	.8	1.4	.8	-.2
17.0	.4	.0	.0	-.1	.0	.0	.0	.0	.0	.8	1.2	.8	-.4
18.0	.2	.0	.0	-.1	.0	.0	.0	.0	.0	.8	1.0	.8	-.6
19.0	.0	.0	.0	-.1	.0	.0	.0	.0	.0	.8	.8	.7	-.7
20.0	.1	.0	.0	-.1	.0	.0	.0	.0	.0	.7	.8	.6	-.5
21.0	.1	.0	.0	-.1	.1	.0	.0	.0	.0	.6	.8	.6	-.4
22.0	.1	.0	.0	-.1	.1	.0	.0	.0	.0	.6	.7	.5	-.4
23.0	.1	.0	.0	-.1	.1	.0	.0	.0	.0	.6	.6	.5	-.4
24.0	.1	.0	.0	-.1	.1	.0	.0	.0	.0	.5	.6	.4	-.4
25.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.5	.6	.4	-.3
26.0	.2	.0	-.1	.0	.1	.0	.0	.0	.0	.5	.6	.4	-.3
27.0	.2	.0	-.2	.0	.0	.0	.0	.0	.0	.5	.6	.4	-.3
28.0	.2	.0	-.2	.0	.0	.0	.0	.0	.0	.5	.7	.5	-.3
29.0	.1	.0	-.2	.0	.0	.0	.0	.0	.0	.5	.7	.5	-.3
30.0	.1	.0	-.3	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.3
31.0	.1	.0	-.3	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
32.0	.1	.0	-.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
33.0	.1	.0	-.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
34.0	.1	.0	-.4	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
35.0	.2	.0	-.4	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.5
36.0	.2	-.1	-.4	.0	.0	.0	.0	.0	.0	.7	.9	.7	-.5
37.0	.2	-.1	-.4	.0	.0	.0	.0	.0	.0	.8	.9	.7	-.5
38.0	.2	-.1	-.5	.0	.0	.0	.0	.0	.0	.8	1.0	.7	-.5
39.0	.2	-.1	-.5	.0	.0	.0	.0	.0	.0	.8	.9	.7	-.5
40.0	.1	.0	-.4	.0	.0	.0	.0	.0	.0	.8	.9	.7	-.5
41.0	.1	.0	-.4	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.5
42.0	.1	.0	-.4	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.5
43.0	.1	.0	-.3	.0	.0	.0	.0	.0	.0	.6	.7	.6	-.4
44.0	.1	-.1	-.3	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
45.0	.2	-.1	-.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.4
46.0	.2	-.1	-.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
47.0	.2	-.1	-.3	.0	.0	.0	.0	.0	.0	.6	.8	.5	-.3
48.0	.2	-.1	-.3	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.3
49.0	.2	-.1	-.3	.0	.0	.0	.0	.0	.0	.6	.9	.5	-.3

GN/C

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	.2	.1	.3	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
51.0	.2	.1	.3	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
52.0	.2	.1	.3	.0	.0	.0	.0	.0	.0	.6	.8	.6	-.4
53.0	.2	.1	.3	.0	.0	.0	.0	.0	.0	.6	.9	.6	-.4
54.0	.3	.1	.3	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.3
55.0	.3	.1	.3	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.3
56.0	.3	.1	.3	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.4
57.0	.2	.1	.3	.0	.0	.0	.0	.0	.0	.8	1.0	.6	-.4
58.0	.2	.1	.3	.0	.0	.0	.0	.0	.0	.8	1.0	.6	-.5
59.0	.1	.1	.3	.0	.0	.0	.0	.0	.0	.8	.9	.6	-.5
60.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	.8	.9	.6	-.5
61.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	.8	.9	.6	-.5
62.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.5
63.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.4
64.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
65.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
66.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
67.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
68.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
69.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
70.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.4
71.0	.1	.1	-.1	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.4
72.0	.0	.1	-.1	.0	.0	.0	.0	.0	.0	.6	.6	.4	-.4
73.0	.0	.1	-.1	.0	.0	.0	.0	.0	.0	.6	.6	.4	-.4
74.0	.0	.1	-.2	.0	.0	.0	.0	.0	.0	.6	.6	.4	-.4
75.0	.0	.1	-.2	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.4
76.0	.0	.1	-.3	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.5
77.0	.0	.1	-.3	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.5
78.0	.0	.1	-.4	.0	-.1	.0	.0	.0	.0	.6	.6	.5	-.5
79.0	.0	.1	-.4	.0	-.1	.0	.0	.0	.0	.7	.6	.6	-.6
80.0	.0	.1	-.5	.0	-.1	.0	.0	.0	.0	.7	.7	.6	-.6
81.0	.0	.1	-.6	.0	-.1	.0	.0	.0	.0	.7	.8	.7	-.6
82.0	.0	.1	-.6	.0	-.1	.0	.0	.0	.0	.8	.8	.7	-.7
83.0	.0	.1	-.7	.0	-.1	-.1	.0	.0	.0	.9	.9	.8	-.8
84.0	.0	.2	-.8	.0	-.1	-.1	.0	.0	.0	.9	1.0	.9	-.8
85.0	.0	.2	-.9	.0	-.1	-.1	.0	.0	.0	1.0	1.0	1.0	-.9
86.0	.0	.2	-.9	.0	-.1	-.1	.0	.0	.0	1.1	1.1	1.0	-1.0
87.0	.0	.2	-1.0	.0	-.1	-.1	.0	.0	.0	1.1	1.1	1.1	-1.1
88.0	.0	.2	-1.0	.0	-.1	-.1	.0	.0	.0	1.2	1.2	1.1	-1.1
89.0	.0	.2	-1.0	.0	-.1	-.1	.0	.0	.0	1.2	1.1	1.1	-1.1
90.0	.0	.2	-1.0	.0	-.1	-.1	.0	.0	.0	1.3	1.2	1.0	-1.1
91.0	.0	.3	-.8	-.1	.0	-.1	.0	.0	.0	1.1	1.2	1.0	-1.0
92.0	.1	.1	-1.0	.0	-.1	-.1	.0	.0	.0	1.1	1.2	1.2	-1.1
93.0	.3	.2	-.9	.0	-.1	-.1	.0	.0	.0	1.1	1.4	1.0	-.7
94.0	.4	.3	-.9	.0	-.1	-.1	.0	.0	.0	1.1	1.5	1.0	-.6
95.0	.5	.2	-.9	.0	-.1	-.1	.0	.0	.0	1.1	1.6	1.1	-.6
96.0	.4	.2	-.9	.0	-.1	-.1	.0	.0	.0	1.2	1.6	1.1	-.6
97.0	.4	.2	-.9	.0	-.1	-.1	.0	.0	.0	1.3	1.6	1.0	-.7
98.0	.3	.3	-.9	.0	-.1	-.1	.0	.0	.0	1.3	1.6	1.0	-.7
99.0	.3	.3	-.8	.0	-.1	-.1	.0	.0	.0	1.3	1.6	1.0	-.7

GN/C

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
50.0	.2	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
51.0	.2	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
52.0	.2	-.1	-.2	.0	.0	.0	.0	.0	.0	.6	.8	.6	-.4
53.0	.2	-.1	-.2	.0	.0	.0	.0	.0	.0	.6	.9	.6	-.4
54.0	.3	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.3
55.0	.3	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.3
56.0	.3	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	1.0	.6	-.4
57.0	.2	-.1	-.2	.0	.0	.0	.0	.0	.0	.8	1.0	.6	-.4
58.0	.2	-.1	-.2	.0	.0	.0	.0	.0	.0	.8	1.0	.6	-.5
59.0	.1	-.1	-.2	.0	.0	.0	.0	.0	.0	.8	.9	.6	-.5
60.0	.1	-.1	-.2	.0	.0	.0	.0	.0	.0	.8	.9	.6	-.5
61.0	.1	-.1	-.2	.0	.0	.0	.0	.0	.0	.8	.9	.6	-.5
62.0	.2	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.5
63.0	.2	-.1	-.2	.0	.0	.0	.0	.0	.0	.7	.9	.6	-.4
64.0	.1	-.1	-.1	.0	.0	.0	.0	.0	.0	.7	.8	.6	-.4
65.0	.1	-.1	-.1	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
66.0	.1	-.1	-.1	.0	.0	.0	.0	.0	.0	.7	.8	.5	-.4
67.0	.1	-.1	-.1	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
68.0	.1	-.1	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
69.0	.1	-.1	.0	.0	.0	.0	.0	.0	.0	.6	.7	.5	-.4
70.0	.1	-.1	.0	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.4
71.0	.1	-.1	.1	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.4
72.0	.0	-.1	.1	.0	.0	.0	.0	.0	.0	.6	.6	.4	-.4
73.0	.0	-.1	.1	.0	.0	.0	.0	.0	.0	.6	.6	.4	-.4
74.0	.0	-.1	.2	.0	.0	.0	.0	.0	.0	.6	.6	.4	-.4
75.0	.0	-.1	.2	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.4
76.0	.0	-.1	.3	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.5
77.0	.0	-.1	.3	.0	.0	.0	.0	.0	.0	.6	.6	.5	-.5
78.0	.0	-.1	.4	.0	.1	.0	.0	.0	.0	.6	.6	.5	-.5
79.0	.0	-.1	.4	.0	.1	.1	.0	.0	.0	.7	.6	.6	-.6
80.0	.0	-.1	.5	.0	.1	.1	.0	.0	.0	.7	.7	.6	-.6
81.0	.0	-.1	.6	.0	.1	.1	.0	.0	.0	.7	.8	.7	-.6
82.0	.0	-.1	.6	.0	.1	.1	.0	.0	.0	.8	.8	.7	-.7
83.0	.0	-.2	.7	.0	.1	.1	.0	.0	.0	.9	.9	.8	-.8
84.0	.0	-.2	.8	.0	.1	.1	.0	.0	.0	.9	1.0	.9	-.8
85.0	.0	-.2	.9	.0	.1	.1	.0	.0	.0	1.0	1.0	1.0	-.9
86.0	.0	-.2	.9	.0	.1	.1	.0	.0	.0	1.1	1.1	1.0	-1.0
87.0	.0	-.2	1.0	.0	.1	.1	.0	.0	.0	1.1	1.1	1.1	-1.1
88.0	.0	-.2	1.0	.0	.1	.1	.0	.0	.0	1.2	1.2	1.1	-1.1
89.0	.0	-.2	1.0	.0	.1	.1	.0	.0	.0	1.2	1.1	1.1	-1.1
90.0	.0	-.1	1.1	.0	.1	.1	.0	.0	.0	1.3	1.2	1.0	-1.1
91.0	.0	-.4	.8	.1	.1	.2	.0	.1	.0	1.1	1.2	1.0	-1.0
92.0	.1	-.3	.9	.0	.1	.1	.0	.0	.0	1.1	1.2	1.2	-1.1
93.0	.3	-.3	.9	.0	.1	.1	.0	.0	.0	1.1	1.4	1.0	-.7
94.0	.4	-.3	.9	.0	.1	.1	.0	.0	.0	1.1	1.5	1.0	-.6
95.0	.5	-.3	.9	.0	.1	.1	.0	.0	.0	1.1	1.6	1.1	-.6
96.0	.4	-.3	.9	.0	.1	.1	.0	.0	.0	1.2	1.6	1.1	-.6
97.0	.4	-.3	.9	.0	.1	.1	.0	.0	.0	1.3	1.6	1.0	-.7
98.0	.3	-.3	.9	.0	.1	.1	.0	.0	.0	1.3	1.6	1.0	-.7
99.0	.3	-.3	.9	.0	.1	.1	.0	.0	.0	1.3	1.6	1.0	-.7

GN/C

RETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	.3	.3	-.8	.0	-.1	-.1	.0	.0	.0	1.3	1.6	1.0	-.7
101.0	.3	.3	-.8	.0	-.1	-.1	.0	.0	.0	1.3	1.6	1.0	-.8
102.0	.2	.3	-.8	.0	-.1	-.1	.0	.0	.0	1.3	1.6	1.0	-.8
103.0	.2	.3	-.7	.0	-.1	-.1	.0	.0	.0	1.3	1.6	1.0	-.8
104.0	.3	.3	-.7	.0	.0	-.1	.0	.0	.0	1.3	1.6	1.0	-.7
105.0	.3	.3	-.7	.0	.0	-.1	.0	.0	.0	1.3	1.6	1.0	-.7
106.0	.3	.4	-.7	.0	.0	-.1	.0	.0	.0	1.3	1.6	1.0	-.7
107.0	.3	.4	-.7	.0	.0	-.1	.0	.0	.0	1.3	1.6	1.0	-.7
108.0	.3	.3	-.7	.0	.0	-.1	.0	.0	.0	1.3	1.6	1.0	-.7
109.0	.3	.3	-.6	.0	.0	-.1	.0	.0	.0	1.5	1.8	1.2	-.9
110.0	.3	.3	-.4	.0	.0	-.1	.0	.0	.0	2.5	2.8	2.4	-2.1
111.0	.4	.3	-.7	.0	.0	-.1	.0	.0	.0	3.6	3.9	3.5	-3.2
112.0	.4	.3	-.1	.0	.0	-.1	.0	.0	.0	4.1	4.6	4.1	-3.7
113.0	.5	.3	.0	.0	.0	-.1	.0	.0	.0	4.2	4.6	4.2	-3.7
114.0	.5	.3	.2	.0	.1	-.1	.0	.0	.0	3.6	4.1	3.6	-3.1
115.0	.5	.4	.4	.0	.1	-.1	.0	.0	.0	2.9	3.4	3.0	-2.5
116.0	.5	.4	.5	.0	.1	-.1	.0	.0	.0	2.1	2.6	2.1	-1.6
117.0	.5	.3	.4	-.1	.1	-.1	.0	.0	.0	1.3	1.8	1.3	-.8
118.0	.4	.3	.2	-.1	.1	-.1	.0	.0	.0	1.0	1.5	1.0	-.6
119.0	.4	.3	-.1	-.1	.1	-.1	.0	.0	.0	1.1	1.5	1.0	-.6
120.0	.4	.3	-.4	-.1	.1	-.1	.0	.0	.0	1.3	1.7	1.3	-.9
121.0	.3	.3	-.5	-.1	.1	-.1	.0	.0	.0	1.6	1.9	1.6	-1.3
122.0	.3	.2	-.8	-.1	.1	-.1	.0	.0	.0	1.7	1.9	1.7	-1.5
123.0	.2	.1	-.8	.0	.1	-.1	.0	.0	.0	1.6	1.8	1.7	-1.4
124.0	.2	.1	-.9	.0	.1	-.1	.0	.0	.0	1.5	1.7	1.6	-1.5
125.0	.1	.1	-.9	.0	.1	-.1	.0	.0	.0	1.4	1.5	1.6	-1.5
126.0	.1	.1	-.9	.0	.1	-.1	.0	.0	.0	1.4	1.5	1.6	-1.5
127.0	.0	.1	-.9	.0	.1	-.1	.0	.0	.0	1.4	1.4	1.6	-1.5
128.0	.0	.1	-.9	.0	.1	-.1	.0	.0	.0	1.4	1.4	1.6	-1.6
129.0	-.1	.1	-.9	.0	.1	-.1	.0	.0	.0	1.4	1.3	1.6	-1.7
130.0	-.1	.1	-.9	.0	.1	-.1	.0	.0	.0	1.4	1.3	1.6	-1.7
140.0	-.9	.0	-.9	.0	.1	.0	.0	-.1	.0	1.6	.7	1.1	-2.0
150.0	-.5	-.1	-.9	.0	.1	.0	.0	.0	.0	1.5	.9	1.3	-1.8
160.0	-.6	.0	-.9	.0	.1	-.1	.0	.0	.0	1.5	.9	1.2	-1.8
170.0	-.7	.0	-.8	.0	.1	-.1	.0	.0	.0	1.4	.7	1.1	-1.8
180.0	-.8	.0	-.7	.0	.1	-.1	.0	.0	.0	1.4	.6	1.1	-1.9
190.0	-1.0	.0	-.7	.0	.1	-.1	.0	.0	.0	1.4	.4	1.0	-2.0
200.0	-1.1	.0	-.7	.0	.1	-.1	.0	.0	.0	1.4	.3	1.0	-2.0
210.0	-1.2	.0	-.6	.0	.1	-.1	.0	.0	.0	1.4	.2	.9	-2.1
220.0	-1.3	.0	-.6	.0	.1	.0	.0	.0	.0	1.5	.2	.9	-2.1
230.0	-1.4	.0	-.6	.0	.1	.0	.0	.0	.0	1.5	.2	.8	-2.1
240.0	-1.4	.0	-.5	.0	.1	.0	.0	.0	.0	1.6	.2	.7	-2.1
250.0	-1.5	.2	-.5	.0	.1	.0	.0	.0	.0	1.7	.2	.6	-2.2
260.0	-1.6	.3	-.5	.0	.0	.0	.0	.0	.0	1.9	.3	.6	-2.2
270.0	-1.7	.4	-.5	.0	.0	.0	.0	.0	.0	2.0	.4	.6	-2.2
280.0	-1.8	.5	-.4	.0	.0	.0	.0	.0	.0	2.2	.5	.5	-2.3
290.0	-1.8	.6	-.4	.0	.0	.0	.0	.0	.0	2.5	.7	.5	-2.3
300.0	-1.9	.7	-.4	.0	.0	.0	.0	.0	.0	2.8	.9	.5	-2.3
310.0	-1.9	.7	-.4	-.1	.0	-.1	-.1	-.1	-.1	2.8	1.0	.6	-2.5
320.0	-1.7	.6	-.6	-.1	-.2	-.1	-.2	-.3	-.2	2.4	.7	1.0	-2.8

GN/C

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
100.0	.3	-.3	.9	.0	.1	.1	.0	.0	.0	1.3	1.6	1.0	-.7
101.0	.3	-.3	.9	.0	.1	.1	.0	.0	.0	1.3	1.6	1.0	-.8
102.0	.2	-.3	.9	.0	.1	.1	.0	.0	.0	1.3	1.6	1.0	-.8
103.0	.2	-.3	.9	.0	.1	.1	.0	.0	.0	1.3	1.6	1.0	-.8
104.0	.3	-.4	.9	.0	.1	.1	.0	.0	.0	1.3	1.6	1.0	-.7
105.0	.3	-.4	.7	.0	.1	.2	.0	.0	.0	1.3	1.6	1.0	-.7
106.0	.3	-.4	.7	.0	.1	.2	.0	.0	.0	1.3	1.6	1.0	-.7
107.0	.3	-.4	.7	.0	.1	.2	.0	.0	.0	1.3	1.6	1.0	-.7
108.0	.3	-.4	.7	.0	.1	.2	.0	.0	.0	1.3	1.6	1.0	-.7
109.0	.3	-.3	.6	.0	.1	.1	.0	.0	.0	1.5	1.8	1.2	-.9
110.0	.3	-.3	.5	.0	.1	.1	.0	.0	.0	2.5	2.8	2.4	-2.1
111.0	.4	-.3	.7	.0	.0	.1	.0	.0	.0	3.6	3.9	3.5	-3.2
112.0	.4	-.3	.1	.0	.0	.1	.0	.0	.0	4.1	4.6	4.1	-3.7
113.0	.5	-.3	.0	.0	.0	.1	.0	.0	.0	4.2	4.6	4.2	-3.7
114.0	.5	-.3	-.2	.0	.0	.1	.0	.0	.0	3.6	4.1	3.6	-3.1
115.0	.5	-.3	-.3	.1	-.1	.2	.0	.0	.0	2.9	3.4	3.0	-2.5
116.0	.5	-.4	-.4	.1	-.1	.2	.0	.0	.0	2.1	2.6	2.1	-1.6
117.0	.5	-.4	-.4	.1	-.1	.2	.0	.0	.0	1.3	1.8	1.3	-.8
118.0	.4	-.4	-.2	.1	-.1	.2	.0	.0	.0	1.0	1.5	1.0	-.6
119.0	.4	-.4	.1	.1	-.1	.2	.0	.0	.0	1.1	1.5	1.0	-.6
120.0	.4	-.4	.4	.1	-.1	.2	.0	.0	.0	1.3	1.7	1.3	-.9
121.0	.3	-.4	.6	.1	-.1	.2	.0	.0	.0	1.6	1.9	1.6	-1.3
122.0	.3	-.4	.7	.1	-.1	.1	.0	.0	.0	1.7	1.9	1.7	-1.5
123.0	.2	-.4	.7	.1	-.1	.1	.0	.0	.0	1.6	1.8	1.7	-1.4
124.0	.2	-.4	.8	.0	-.1	.0	.0	.0	.0	1.5	1.7	1.6	-1.5
125.0	.1	-.4	.9	.0	-.1	.0	.0	.0	.0	1.4	1.5	1.6	-1.5
126.0	.1	-.3	.9	.0	-.1	.0	.0	.0	.0	1.4	1.5	1.6	-1.5
127.0	.0	-.3	.9	.0	-.1	.0	.0	.0	.0	1.4	1.4	1.6	-1.5
128.0	.0	-.3	.9	.0	-.1	.0	.0	.1	.0	1.4	1.4	1.6	-1.6
129.0	-.1	-.3	.9	.0	-.1	.0	.0	.1	.0	1.4	1.3	1.6	-1.7
130.0	-.1	-.3	.9	.0	-.1	.0	.0	.1	.0	1.4	1.3	1.6	-1.7
140.0	-.9	-.2	1.1	.0	-.1	.0	.0	.1	.0	1.6	.7	1.1	-2.0
150.0	-.5	-.2	1.0	.0	-.1	.0	.0	.0	.0	1.5	.9	1.3	-1.8
160.0	-.6	-.3	1.0	.0	-.1	.0	.0	.0	.0	1.5	.9	1.2	-1.8
170.0	-.7	-.3	1.0	.0	-.1	.0	.0	.0	.0	1.4	.7	1.1	-1.8
180.0	-.8	-.2	1.0	.0	-.1	.0	.0	.0	.0	1.4	.6	1.1	-1.9
190.0	-1.0	-.2	1.0	.0	-.1	.0	.0	.0	.0	1.4	.4	1.0	-2.0
200.0	-1.1	-.2	1.0	.0	-.1	.0	.0	.0	.0	1.4	.3	1.0	-2.0
210.0	-1.2	-.2	1.1	.0	-.1	.0	.0	.0	.0	1.4	.2	.9	-2.1
220.0	-1.3	-.2	1.1	.0	-.1	.0	.2	.0	.0	1.5	.2	.9	-2.1
230.0	-1.4	-.2	1.1	.0	-.1	.0	.3	.0	.0	1.5	.2	.8	-2.1
240.0	-1.4	-.2	1.1	.0	-.1	.0	.4	.0	.1	1.6	.2	.7	-2.1
250.0	-1.5	-.2	1.1	.0	.0	.0	.4	.0	.2	1.7	.2	.6	-2.2
260.0	-1.6	-.2	1.1	.0	.1	.0	.5	.0	.3	1.9	.3	.6	-2.2
270.0	-1.7	-.1	1.1	.0	.2	.0	.6	.0	.4	2.0	.4	.6	-2.2
280.0	-1.8	-.1	1.1	.0	.4	.0	.7	.0	.4	2.2	.5	.5	-2.3
290.0	-1.8	-.1	1.1	.0	.5	.1	.8	.0	.5	2.5	.7	.5	-2.3
300.0	-1.9	-.1	1.1	.0	.6	.2	.9	.1	.6	2.8	.9	.5	-2.3
310.0	-1.9	-.2	1.0	.1	.6	.4	.9	.2	.6	2.8	1.0	.6	-2.5
320.0	-1.7	-.1	.9	.1	.5	.7	.7	.2	.5	2.4	.7	1.0	-2.8

GN/C

BETA POS

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-1.6	.5	-.9	-.1	-.4	-.1	-.4	-.2	-.4	2.0	.4	1.4	-3.1
340.0	-1.5	.4	-.9	-.1	-.5	.0	-.6	-.2	-.6	1.6	.1	1.8	-3.3
350.0	-1.4	.4	-1.0	-.1	-.7	.0	-.7	-.2	-.7	1.3	-.1	2.1	-3.6
360.0	-1.3	.3	-1.1	.0	-.8	.0	-.8	-.1	-.8	1.0	-.3	2.5	-3.8
370.0	-1.2	.2	-1.3	.0	-1.0	.0	-1.0	-.1	-1.0	.7	-.5	2.8	-4.0
380.0	-1.1	.1	-1.4	.0	-1.0	.0	-1.1	-.1	-.9	.4	-.7	3.1	-4.2
390.0	-1.0	.1	-1.5	.0	-.8	.0	-1.2	.0	-.8	.2	-.8	3.3	-4.3
400.0	-.9	.0	-1.6	.0	-.5	.0	-1.4	.0	-.8	.1	-.8	3.5	-4.4
410.0	-.8	-.1	-1.7	.0	-.3	.0	-1.5	.0	-.7	.1	-.7	3.6	-4.4
420.0	-.7	-.1	-1.8	.0	-.1	.0	-1.6	.0	-.7	.1	-.6	3.7	-4.5
430.0	-.7	-.2	-1.9	.0	.1	.0	-1.6	.1	-.6	.2	-.5	3.9	-4.5
440.0	-.6	-.2	-1.9	.0	.3	.0	-1.5	.1	-.5	.4	-.2	3.8	-4.4
450.0	-.5	-.3	-1.1	.0	.4	.0	-.3	.1	-.5	.6	.0	3.3	-3.8
460.0	-.4	-.3	1.2	.0	.6	.0	1.0	.1	-.5	1.7	1.2	3.4	-3.8
470.0	-.3	-.4	3.3	.0	.8	.0	2.1	.1	-.5	4.0	3.7	3.5	-3.8
480.0	-.4	-.4	4.2	.1	.9	.0	3.3	.1	-.3	5.4	5.1	3.0	-3.4

CN/C

BETA NEG

TIME	NOM VAL	1	2	3	4	5	6	7	8	+RSS	NOM+RSS	-RSS	NOM-RSS
330.0	-1.6	-.1	.7	.1	.4	.3	.6	.2	.4	2.0	.4	1.4	-3.1
340.0	-1.5	-.1	.5	.1	.4	.2	.5	.1	.3	1.6	.1	1.8	-3.3
350.0	-1.4	-.1	.4	.1	.3	.2	.4	.1	.2	1.3	-.1	2.1	-3.6
360.0	-1.3	-.1	.2	.1	.2	.2	.3	.1	.1	1.0	-.3	2.5	-3.8
370.0	-1.2	.0	.1	.0	.2	.1	.2	.1	.0	.7	-.5	2.8	-4.0
380.0	-1.1	.0	.0	.0	.1	.1	.1	.0	-.1	.4	-.7	3.1	-4.2
390.0	-1.0	.0	-.1	.0	.1	.1	.0	.0	-.2	.3	-.8	3.3	-4.3
400.0	-.9	.0	-.2	.0	.0	.0	.0	.0	-.3	.1	-.8	3.5	-4.4
410.0	-.8	.0	-.4	.0	-.1	.0	-.1	.0	-.3	.1	-.7	3.6	-4.4
420.0	-.7	.0	-.5	.0	-.1	.0	-.2	.0	-.4	.1	-.6	3.7	-4.5
430.0	-.7	.1	-.6	.0	-.1	-.1	-.3	-.1	-.5	.2	-.5	3.8	-4.5
440.0	-.6	.1	-.7	.0	-.2	-.1	-.3	-.1	-.5	.4	-.2	3.8	-4.4
450.0	-.5	.1	-.8	.0	-.2	-.1	-.4	-.1	-.6	.6	.0	3.3	-3.8
460.0	-.4	.1	-.9	-.1	-.3	-.1	-.4	-.1	-.7	1.7	1.2	3.4	-3.8
470.0	-.3	.1	-.9	-.1	-.3	-.2	-.5	-.1	-.7	4.0	3.7	3.5	-3.8
480.0	-.4	.1	-1.0	-.1	-.4	-.2	-.6	-.1	-.8	5.4	5.1	3.0	-3.4

APPENDIX H—MISSION 1 HEATING ANALYSIS DATA

Table H-1. Maximum Aerodynamic Heating (RQHW) Trajectory Data

DYNETICS - ETR - RIGHT QUART , HEAD

TIME (SEC.)	ALTITUDE (FEET)	REL. VEL. (FEET/SEC.)	ALPHA (DEG)	BETA (DEG)	ALPHA+ (DEG)	ALPHA- (DEG)	BETA+ (DEG)	BETA- (DEG)
.00	-24.61	.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
5.00	179.83	86.80	-3.36	9.74	-2.52	-4.15	10.41	9.21
10.00	863.89	196.55	2.29	2.28	3.04	1.43	3.00	1.58
15.00	2125.98	318.17	3.78	-2.03	4.65	3.18	-1.03	-2.89
20.00	3992.58	455.19	.77	-2.57	1.64	.19	-1.86	-3.22
25.00	6493.60	603.62	-1.43	-1.48	-.55	-2.57	-.91	-1.94
30.00	9613.27	746.79	-2.29	-.69	-1.42	-3.11	-.06	-1.22
35.00	13309.14	887.87	-2.05	-.14	-1.19	-3.86	.59	-.94
40.00	17537.52	1020.94	-2.69	-.19	-2.04	-4.22	.47	-.77
45.00	22177.34	1129.75	-3.13	-.09	-2.44	-3.72	.47	-.59
50.00	27148.74	1238.97	-3.14	-.08	-2.46	-3.82	.51	-.62
55.00	32428.03	1353.48	-3.22	-.13	-2.53	-3.88	.55	-.72
60.00	38042.36	1495.63	-3.08	-.28	-2.27	-3.86	.38	-.86
65.00	44132.42	1685.97	-1.56	-.31	-.50	-3.06	.29	-.81
70.00	50766.69	1905.54	-.31	-.34	.45	-2.54	.42	-1.10
75.00	57953.78	2156.59	.35	-.50	1.89	-1.20	.01	-.94
80.00	65700.25	2434.61	.58	-.61	1.85	-.77	.05	-1.27
85.00	73986.63	2723.04	-.24	-.82	1.58	-1.95	.18	-1.84
90.00	82792.20	3019.34	-.05	-.82	1.78	-1.92	.22	-1.85
92.00	86452.59	3142.00	.02	-.80	1.84	-1.75	.23	-1.82
94.00	90188.65	3265.67	.13	-.79	1.90	-1.57	.26	-1.81
96.00	93996.47	3389.49	.16	-.79	1.95	-1.52	.26	-1.79
98.00	97873.40	3514.58	.25	-.80	2.03	-1.42	.29	-1.79
100.00	101814.92	3639.96	.28	-.85	2.01	-1.40	.28	-1.84
102.00	105818.57	3765.51	.28	-.89	1.97	-1.31	.25	-1.86
104.00	109880.25	3889.71	.29	-.87	1.98	-1.25	.24	-1.85
106.00	113994.83	4012.34	.31	-.84	1.94	-1.21	.27	-1.79
108.00	118157.40	4133.06	.40	-.80	2.04	-1.16	.37	-1.82
110.00	122360.97	4244.19	.90	-.69	2.73	-.68	2.60	-3.95
112.00	126584.85	4330.76	1.92	-.52	3.44	-.39	3.81	-4.87
114.00	130798.47	4389.06	2.49	-.33	3.90	.23	2.75	-3.44
116.00	134980.11	4431.69	2.87	-.28	4.17	.98	.88	-1.43
118.00	139119.09	4466.53	2.70	-.41	4.02	1.10	.37	-1.13
120.00	143209.07	4495.49	2.40	-.58	3.77	.80	.84	-1.95
122.00	147247.17	4521.26	2.31	-.63	3.92	.68	.97	-2.16
124.00	151247.74	4557.35	1.81	-.75	3.47	.17	.68	-2.10
126.00	155209.03	4592.65	1.31	-.74	2.91	-.32	.67	-2.12
128.00	159115.40	4628.74	.82	-.74	5.09	-.71	.68	-2.09
130.00	162982.90	4665.59	3.31	-.72	8.88	1.64	.72	-2.12
140.00	181606.59	4864.84	1.55	-.31	4.89	-1.88	.58	-2.51
150.00	199041.79	5083.11	.10	-.23	3.28	-3.01	.66	-2.55
160.00	215318.24	5319.35	-1.23	-.13	1.70	-4.12	.72	-2.58
170.00	230466.49	5572.88	-2.40	-.02	.28	-5.08	.79	-2.59
180.00	244516.89	5843.18	-3.49	-.03	-1.01	-5.98	.90	-2.60
190.00	257502.05	6129.82	-4.37	-.07	-2.10	-6.69	1.18	-2.42
200.00	269454.56	6432.52	-5.09	-.04	-3.00	-7.24	1.40	-2.26
210.00	280408.46	6751.16	-5.64	-.05	-3.74	-7.66	1.56	-2.11
220.00	290397.39	7085.72	-6.06	-.05	-4.31	-7.93	1.69	-1.97
230.00	299457.84	7436.34	-6.36	-.04	-4.76	-8.10	1.80	-1.82
240.00	307628.57	7803.28	-6.51	-.04	-5.05	-8.12	1.92	-1.63
250.00	314942.99	8186.94	-6.54	-.07	-5.22	-8.03	2.01	-1.45

Table H-1. Maximum Aerodynamic Heating (RQHW) Trajectory Data (Concluded)

260.00	321441.11	8587.79	-6.46	-.07	-5.27	-7.84	2.06	-1.28
270.00	327162.48	9006.48	-6.31	-.09	-5.27	-7.57	2.05	-1.12
280.00	332147.31	9443.76	-6.09	-.09	-5.09	-7.19	2.04	-.97
290.00	336437.21	9900.51	-5.69	-.09	-4.83	-6.73	2.05	-.84
300.00	340077.92	10377.77	-5.26	-.08	-4.51	-6.20	1.93	-.70
310.00	343113.11	10876.71	-4.78	-.08	-4.11	-5.61	1.66	-.58
320.00	345591.37	11398.70	-4.21	-.08	-3.65	-5.01	1.44	-.45
330.00	347562.74	11945.27	-3.59	-.08	-3.12	-4.33	1.26	-.34
340.00	349079.52	12518.18	-2.91	-.08	-2.52	-3.63	1.18	-.24
350.00	350197.46	13119.42	-2.20	-.07	-1.86	-2.89	1.15	-.16
360.00	350975.43	13751.29	-1.44	-.07	-1.13	-2.13	1.17	-.22
370.00	351477.61	14416.41	-.67	-.06	-.36	-1.37	1.22	-.36
380.00	351770.63	15117.78	.14	-.05	.49	-.60	1.31	-.51
390.00	351928.11	15858.91	.94	-.03	1.37	.16	1.39	-.68
400.00	352029.81	16643.88	1.76	-.01	2.43	.91	1.47	-.85
410.00	352163.30	17477.46	2.54	.00	3.79	1.63	1.55	-1.03
420.00	352436.02	18365.36	3.35	.01	4.66	2.28	1.62	-1.19
430.00	352954.80	19303.59	4.02	.03	5.20	2.93	1.69	-1.36
440.00	353766.61	20249.94	4.64	.05	5.63	3.42	1.76	-1.50
450.00	354898.29	21196.99	5.10	.10	6.14	3.75	1.85	-1.62
460.00	356392.30	22145.35	5.33	.16	6.54	3.58	1.93	-1.72
470.00	358307.50	23092.80	5.39	.22	6.74	3.47	2.01	-1.82
480.00	360798.47	23986.46	11.02	.05	11.02	11.02	.05	.05

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Table H-2. Maximum Aerodynamic Heating (HW) Trajectory Data

DYNETICS - ETR - HEADWIND

TIME (SEC.)	ALTITUDE (FEET)	REL. VEL. (FEET/SEC.)	ALPHA (DEG)	BETA (DEG)	ALPHA+ (DEG)	ALPHA- (DEG)	BETA+ (DEG)	BETA- (DEG)
.00	-24.61	.00	-90.00	-90.00	-90.00	-90.00	-90.00	-90.00
5.00	179.83	86.78	5.28	14.23	6.12	4.50	14.90	13.70
10.00	863.89	196.53	5.19	6.16	5.94	4.33	6.87	5.46
15.00	2126.60	318.14	2.63	1.40	3.50	2.03	2.39	.53
20.00	3994.22	454.98	-.83	-.37	.05	-1.40	.34	-1.02
25.00	6496.27	603.11	-2.50	-.06	-1.61	-3.64	.51	-.52
30.00	9620.04	745.88	-3.04	.18	-2.17	-3.85	.80	-.35
35.00	13323.08	886.47	-2.54	.24	-1.67	-4.34	1.02	-.51
40.00	17560.90	1019.19	-2.92	.15	-2.26	-4.45	.82	-.43
45.00	22212.11	1127.26	-3.35	.27	-2.65	-3.93	.83	-.23
50.00	27196.52	1235.66	-3.42	.32	-2.74	-4.11	.91	-.21
55.00	32493.64	1349.22	-3.47	.34	-2.78	-4.13	1.01	-.25
60.00	38129.72	1489.45	-3.46	.29	-2.64	-4.24	.95	-.28
65.00	44264.59	1678.23	-1.86	.18	-.80	-3.36	.78	-.32
70.00	50914.94	1896.73	-.50	.15	.26	-2.73	.91	-.61
75.00	58149.81	2146.84	.25	.14	1.79	-1.31	.64	-.30
80.00	65961.70	2423.89	.60	.22	1.87	-.75	.88	-.44
85.00	74323.74	2711.44	.00	.26	1.81	-1.72	1.26	-.75
90.00	83209.89	3006.99	.17	.24	2.00	-1.70	1.28	-.79
92.00	86902.89	3129.36	.21	.25	2.03	-1.55	1.28	-.77
94.00	90672.37	3252.74	.34	.22	2.11	-1.36	1.27	-.80
96.00	94514.03	3376.29	.40	.23	2.19	-1.28	1.29	-.77
98.00	98424.58	3501.12	.47	.22	2.25	-1.21	1.32	-.76
100.00	102400.75	3626.23	.49	.19	2.22	-1.19	1.31	-.80
102.00	106439.67	3751.52	.48	.17	2.17	-1.11	1.31	-.81
104.00	110536.21	3875.45	.47	.17	2.14	-1.07	1.28	-.81
106.00	114687.09	3997.81	.44	.24	2.07	-1.08	1.35	-.71
108.00	118886.36	4118.25	.48	.26	2.12	-1.08	1.42	-.76
110.00	123126.64	4229.09	.87	.30	2.71	-.70	3.59	-2.96
112.00	127389.48	4315.34	1.92	.37	3.83	-.40	4.71	-3.97
114.00	131641.44	4373.33	2.48	.49	3.90	.23	3.58	-2.61
116.00	135861.83	4415.65	2.89	.55	4.19	1.00	1.71	-.60
118.00	140039.98	4450.18	2.69	.52	4.02	1.09	1.30	-.20
120.00	144170.36	4478.82	2.15	.48	3.53	.55	1.91	-.89
122.00	148247.42	4504.21	2.02	.50	3.63	.39	2.10	-1.02
124.00	152289.62	4539.95	1.56	.44	3.17	-.08	1.86	-.92
126.00	156287.52	4574.86	1.08	.37	2.67	-.55	1.78	-1.01
128.00	160241.55	4610.56	.60	.31	2.17	-.93	1.73	-1.04
130.00	164153.13	4647.01	.70	.28	2.26	-.98	1.72	-1.12
140.00	182992.33	4844.93	2.15	.86	5.46	-1.29	1.75	-1.35
150.00	200625.20	5062.23	.69	.87	3.87	-2.42	1.77	-1.44
160.00	217081.69	5297.75	-.66	.97	2.27	-3.55	1.82	-1.46
170.00	232391.73	5550.79	-1.87	1.09	.81	-4.55	1.90	-1.47
180.00	246586.49	5820.79	-3.00	1.12	-.57	-5.49	2.05	-1.46
190.00	259698.16	6107.31	-3.92	1.14	-1.66	-6.24	2.35	-1.25
200.00	271758.53	6410.02	-4.68	1.16	-2.60	-6.83	2.60	-1.05
210.00	282802.04	6728.78	-5.27	1.07	-3.36	-7.28	2.68	-.99
220.00	292862.73	7063.59	-5.71	.96	-3.97	-7.59	2.70	-.96
230.00	301977.32	7414.55	-6.05	.85	-4.45	-7.79	2.71	-.91
240.00	310182.09	7781.91	-6.23	.75	-4.77	-7.84	2.73	-.82
250.00	317513.33	8166.03	-6.29	.65	-4.96	-7.77	2.73	-.73

Table H-2. Maximum Aerodynamic Heating (HW) Trajectory Data (Concluded)

260.00	324010.21	8567.39	-6.24	.56	-5.04	-7.61	2.69	-.65
270.00	329711.70	8986.62	-6.11	.47	-5.03	-7.37	2.60	-.58
280.00	334659.41	9424.44	-5.86	.39	-4.90	-7.02	2.51	-.51
290.00	338894.97	9881.73	-5.53	.31	-4.68	-6.58	2.44	-.45
300.00	342463.50	10359.52	-5.13	.23	-4.38	-6.07	2.24	-.39
310.00	345410.51	10858.97	-4.65	.16	-4.00	-5.51	1.91	-.33
320.00	347785.43	11381.43	-4.13	.10	-3.57	-4.92	1.62	-.27
330.00	349637.46	11928.42	-3.52	.04	-3.05	-4.27	1.38	-.22
340.00	351021.77	12501.70	-2.87	-.02	-2.48	-3.59	1.24	-.18
350.00	351994.75	13103.26	-2.18	-.07	-1.84	-2.87	1.15	-.16
360.00	352617.08	13735.36	-1.44	-.12	-1.13	-2.13	1.11	-.27
370.00	352953.98	14400.64	-.70	-.17	-.38	-1.40	1.12	-.47
380.00	353074.35	15102.09	.09	-.21	.44	-.65	1.15	-.67
390.00	353055.07	15843.20	.87	-.24	1.29	.08	1.18	-.88
400.00	352978.18	16628.04	1.67	-.26	2.33	.82	1.22	-1.10
410.00	352934.91	17461.40	2.43	-.29	3.67	1.51	1.26	-1.32
420.00	353036.62	18348.97	3.22	-.31	4.52	2.14	1.29	-1.52
430.00	353395.46	19288.50	3.87	-.34	5.05	2.78	1.32	-1.72
440.00	354061.68	20232.61	4.46	-.35	5.45	3.24	1.36	-1.90
450.00	355066.84	21179.10	4.90	-.34	5.94	3.55	1.41	-2.06
460.00	356458.74	22128.77	5.11	-.31	6.32	3.36	1.46	-2.19
470.00	358300.32	23075.90	5.16	-.29	6.51	3.24	1.50	-2.33
480.00	360755.00	23973.78	10.77	-.46	10.77	10.77	-.46	-.46

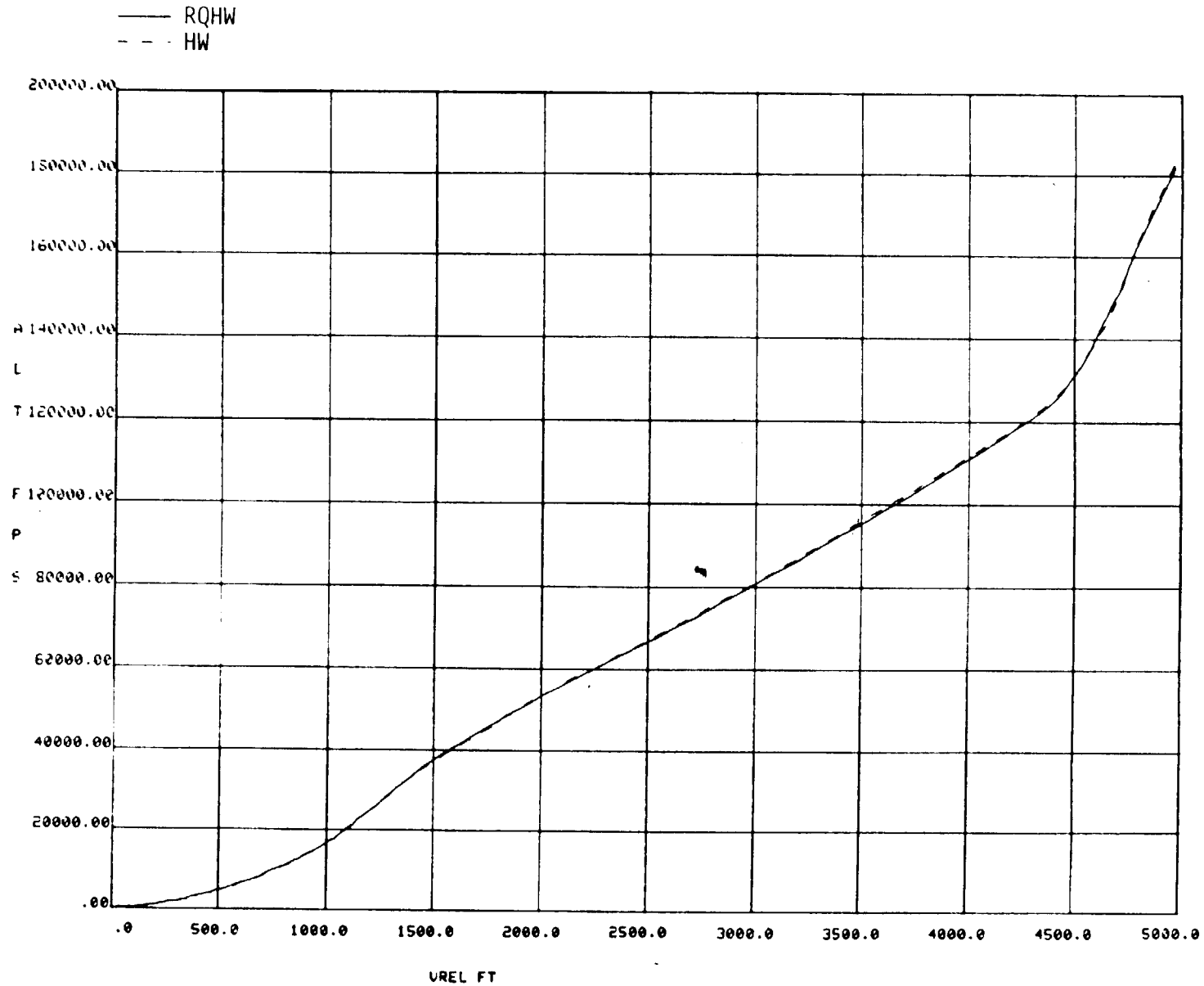

Figure H-1. Relative Velocity versus Altitude (First Stage)

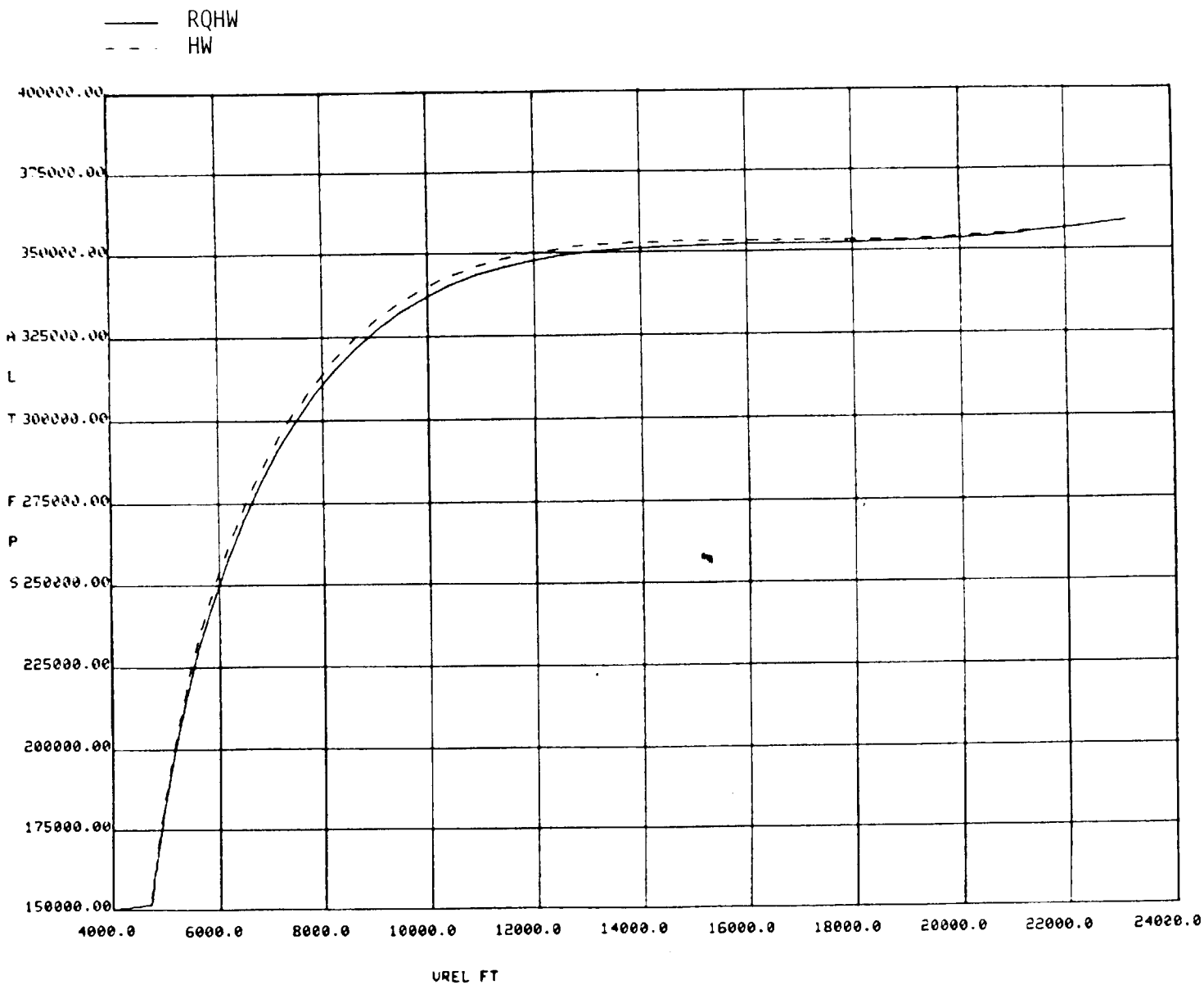

Figure H-2. Relative Velocity versus Altitude (Second Stage)

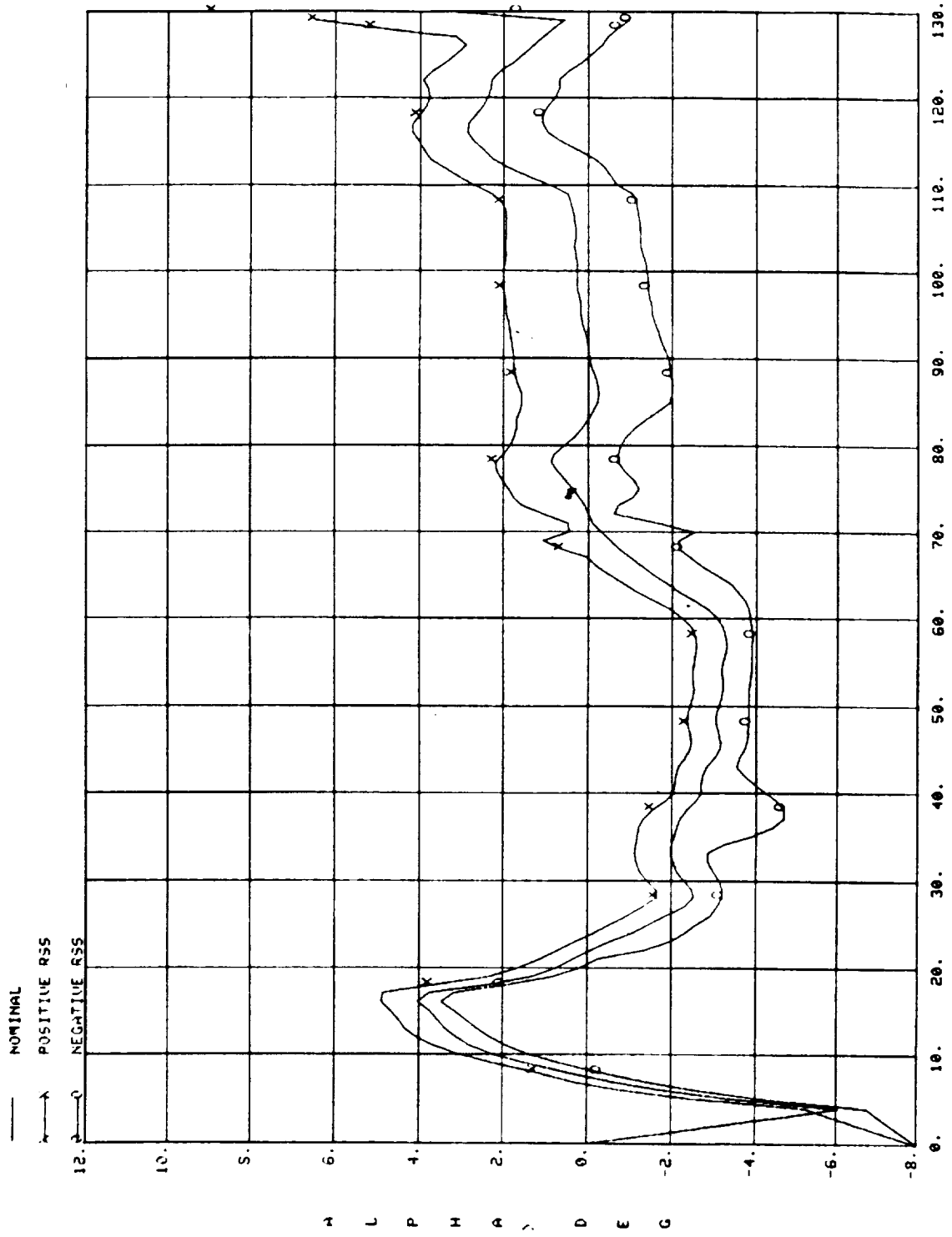

Figure H-3. Angle of Attack History for RQHW Case with System RSS Dispersions Added

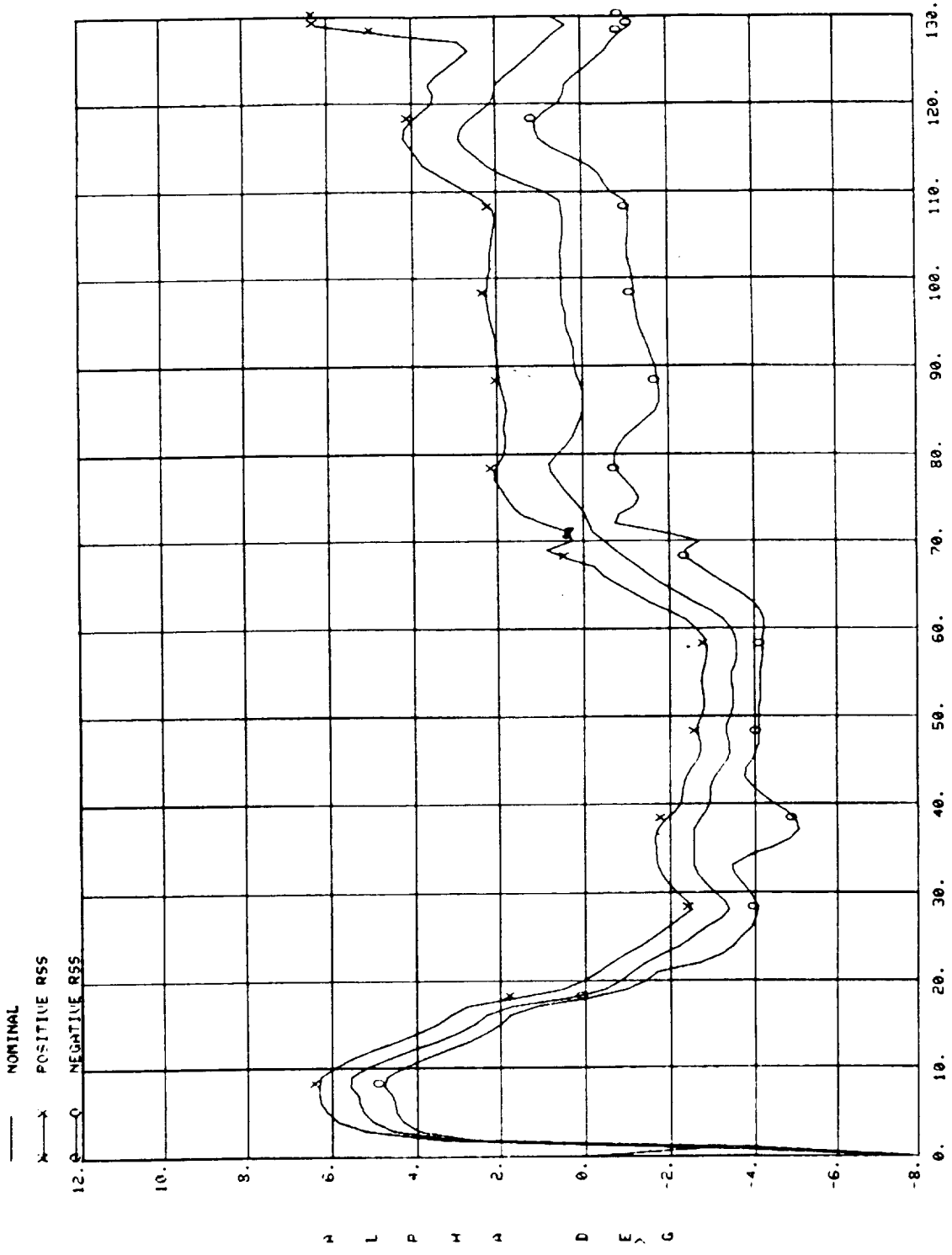

Figure H-4. Angle of Attack History for HW Case with System RSS Dispersions Added

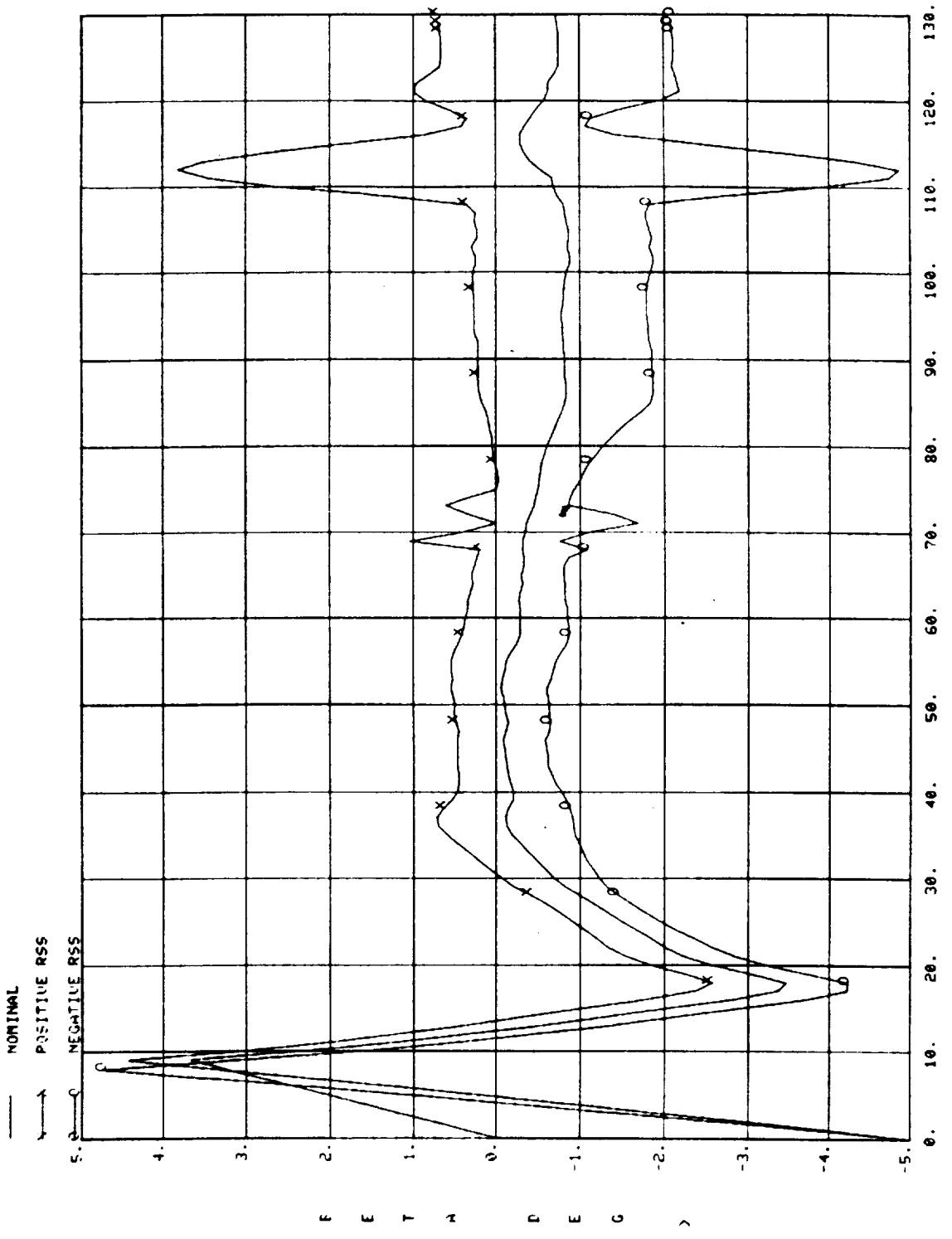

Figure H-5. Sideslip Angle History for RQHW Case with System RSS Dispersions Added

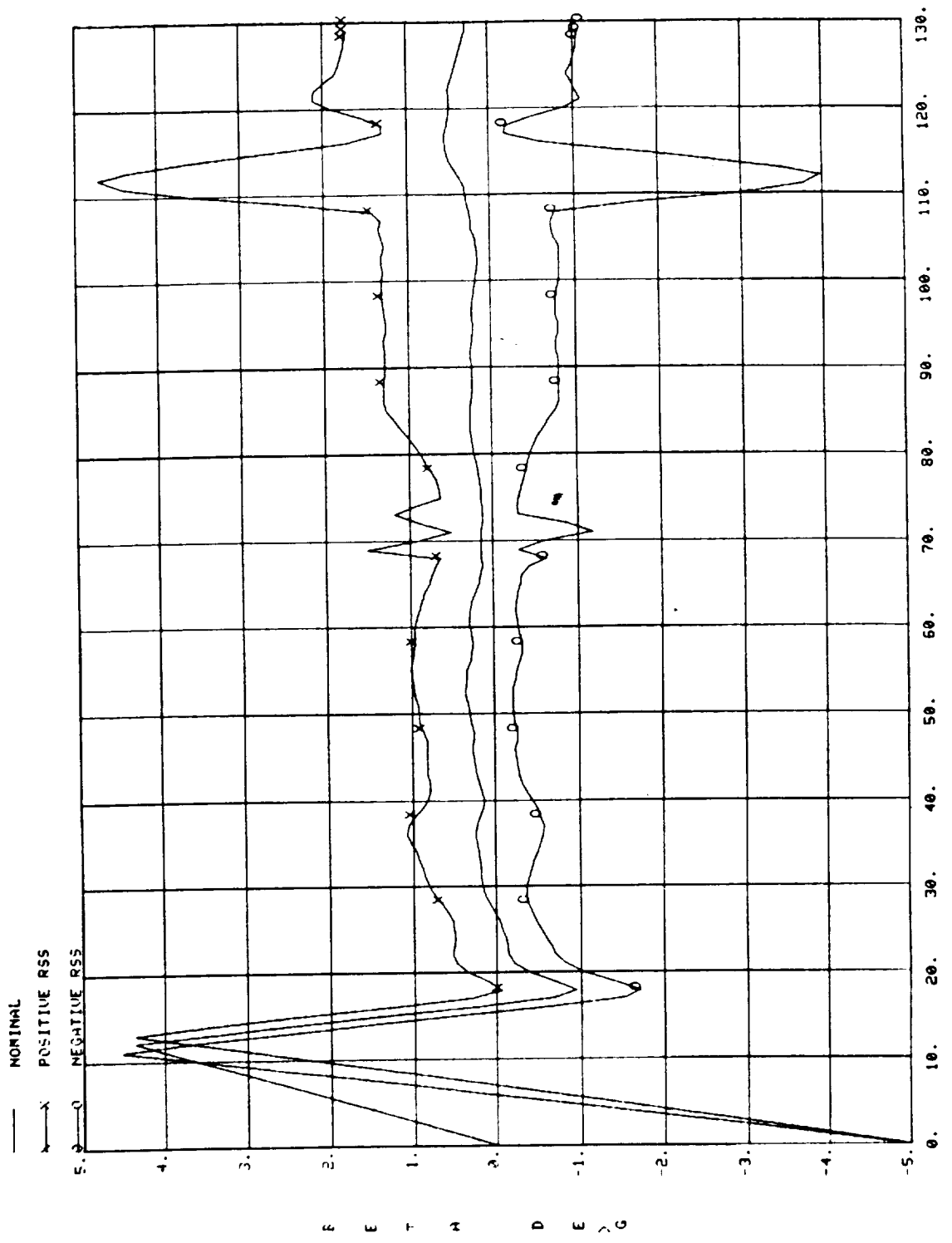

Figure H-6. Sideslip Angle History for HW Case with System RSS Dispersions Added

APPENDIX I—MISSION 4 HEATING ANALYSIS DATA

Table I-1. Maximum Aerodynamic Heating (RQHW) Trajectory Data

DYNETICS - WIR - RIGHT QUART , HEAD

TIME (SEC.)	ALTITUDE (FEET)	REL. VEL. (FEET/SEC.)	ALPHA (DEG)	BETA (DEG)	ALPHA+ (DEG)	ALPHA- (DEG)	BETA+ (DEG)	BETA- (DEG)
.00	334.03	.00	-90.00	.00	-90.00	-90.00	.00	.00
5.00	526.78	86.70	-6.29	5.96	-5.54	-6.98	6.79	5.23
10.00	1219.86	196.49	1.01	.43	1.74	.40	1.33	-.31
15.00	2491.59	318.25	3.83	-3.53	4.61	2.88	-2.70	-4.28
20.00	4371.92	455.14	.77	-4.44	1.47	-.54	-3.77	-5.06
25.00	6895.30	602.69	-2.74	-3.58	-1.53	-3.84	-3.11	-4.01
30.00	10015.58	725.79	-3.29	-2.56	-2.41	-4.87	-2.01	-3.03
35.00	13601.75	839.86	-2.90	-1.57	-2.04	-3.80	-.88	-2.20
40.00	17594.53	952.63	-2.97	-.88	-2.22	-3.72	-.12	-1.56
45.00	21941.44	1062.81	-3.65	-.96	-2.99	-4.29	-.36	-1.49
50.00	26603.31	1173.61	-4.17	-.88	-3.45	-4.88	-.21	-1.40
55.00	31557.37	1288.33	-3.91	-.80	-3.22	-4.70	-.11	-1.42
60.00	36796.26	1427.71	-3.89	-.77	-3.00	-4.64	.01	-1.41
65.00	42436.02	1617.61	-2.84	-.94	-1.56	-4.33	-.25	-1.47
70.00	48578.37	1838.29	-1.98	-1.19	-.69	-3.62	-.61	-1.65
75.00	55251.19	2089.53	-1.15	-1.59	.70	-3.16	-1.03	-2.04
80.00	62467.60	2368.59	-.79	-1.96	.81	-3.13	-1.27	-2.57
85.00	70230.07	2658.56	-2.36	-2.67	-.24	-4.71	-1.67	-3.64
90.00	78559.51	2954.28	-2.53	-2.61	-.34	-5.31	-1.36	-3.65
92.00	82049.09	3076.87	-2.37	-2.22	-.19	-5.38	-1.12	-3.40
94.00	85626.23	3200.84	-2.25	-1.97	-.19	-5.08	-.87	-3.01
96.00	89286.21	3324.75	-2.27	-2.10	-.23	-4.84	-.92	-3.16
98.00	93026.57	3449.88	-2.23	-2.33	-.23	-4.69	-1.05	-3.38
100.00	96844.65	3575.49	-2.20	-2.27	-.26	-4.61	-.99	-3.32
102.00	100736.14	3701.12	-2.17	-2.22	-.25	-4.50	-.87	-3.22
104.00	104697.96	3826.34	-2.11	-2.17	-.21	-4.41	-.88	-3.18
106.00	108724.37	3949.81	-2.06	-2.18	-.18	-4.35	-.89	-3.19
108.00	112810.04	4071.77	-1.98	-2.20	-.17	-4.27	-.88	-3.16
110.00	116948.61	4187.82	-1.88	-1.92	-.02	-4.11	.59	-4.29
112.00	121125.12	4285.09	-1.36	-1.57	.16	-3.73	2.57	-5.72
114.00	125310.45	4352.68	-.68	-1.20	.95	-2.89	2.39	-4.82
116.00	129476.71	4399.44	.16	-1.07	1.75	-2.12	1.01	-3.15
118.00	133606.26	4436.98	.53	-1.50	2.37	-1.77	-.46	-2.52
120.00	137692.75	4467.96	.29	-2.28	2.18	-1.97	-.98	-3.53
122.00	141729.00	4494.69	-.15	-2.84	1.70	-2.58	-1.17	-4.58
124.00	145717.48	4525.65	-.64	-3.08	1.22	-3.12	-1.56	-4.72
126.00	149664.53	4560.85	-1.14	-3.09	.71	-3.63	-1.68	-4.65
128.00	153569.55	4596.82	-1.59	-3.02	.92	-4.00	-1.64	-4.61
130.00	157433.36	4633.54	-2.03	-2.96	4.93	-4.43	-1.58	-4.60
140.00	176074.06	4833.43	.10	-3.26	1.72	-.62	-1.68	-4.90
150.00	193553.15	5052.96	-1.27	-2.96	2.24	-5.57	-1.48	-4.21
160.00	209893.37	5290.52	-2.54	-2.66	.61	-6.61	-1.20	-3.83
170.00	225122.83	5545.40	-3.68	-2.38	-.78	-7.43	-.95	-3.50
180.00	239269.60	5817.15	-4.69	-2.33	-2.03	-8.19	-.93	-3.39
190.00	252361.38	6105.39	-5.55	-2.38	-3.11	-8.78	-1.00	-3.39
200.00	264428.52	6409.86	-6.27	-2.42	-4.03	-9.26	-1.05	-3.38
210.00	275501.55	6730.45	-6.82	-2.46	-4.77	-9.58	-1.06	-3.37
220.00	285613.11	7067.21	-7.21	-2.49	-5.35	-9.77	-1.02	-3.36
230.00	294794.54	7420.32	-7.48	-2.53	-5.78	-9.84	-.98	-3.31
240.00	303079.89	7790.06	-7.65	-2.56	-6.09	-9.81	-.92	-3.25
250.00	310504.63	8176.86	-7.67	-2.59	-6.26	-9.65	-.84	-3.22

Table I-1. Maximum Aerodynamic Heating (RQHW) Trajectory Data (Concluded)

260.00	317103.63	8581.29	-7.59	-2.61	-6.33	-9.39	-.74	-3.20
270.00	322914.61	9004.01	-7.41	-2.64	-6.28	-9.04	-.60	-3.19
280.00	327975.52	9445.85	-7.13	-2.66	-6.14	-8.61	-.43	-3.18
290.00	332326.73	9907.76	-6.80	-2.68	-5.92	-8.11	-.21	-3.17
300.00	336009.47	10390.83	-6.37	-2.70	-5.60	-7.53	.07	-3.16
310.00	339067.21	10896.34	-5.87	-2.72	-5.21	-6.87	.12	-3.32
320.00	341546.30	11425.75	-5.31	-2.74	-4.75	-6.16	-.32	-3.76
330.00	343494.71	11980.70	-4.68	-2.75	-4.22	-5.41	-.73	-4.20
340.00	344964.32	12563.09	-4.03	-2.76	-3.63	-4.61	-1.11	-4.58
350.00	346010.29	13175.06	-3.31	-2.77	-2.97	-3.78	-1.48	-4.92
360.00	346690.45	13819.09	-2.56	-2.78	-2.24	-2.94	-1.80	-5.27
370.00	347068.77	14498.01	-1.78	-2.78	-1.46	-2.14	-2.10	-5.62
380.00	347213.95	15215.11	-.97	-2.79	-.62	-1.38	-2.35	-5.86
390.00	347200.42	15974.19	-.17	-2.78	.27	-.64	-2.53	-6.05
400.00	347111.63	16779.71	.65	-2.78	1.38	.09	-2.63	-6.25
410.00	347037.81	17636.96	1.43	-2.77	2.73	.78	-2.65	-6.38
420.00	347071.85	18552.26	2.20	-2.76	3.58	1.44	-2.62	-6.46
430.00	347300.07	19492.87	2.89	-2.75	4.16	2.03	-2.54	-6.54
440.00	347725.76	20434.45	4.32	-2.74	5.61	3.29	-2.36	-6.56
450.00	348273.87	21381.03	4.80	-2.74	6.23	3.65	-2.19	-6.02
460.00	348961.82	22328.69	4.75	-2.34	6.36	3.31	-.68	-5.70
470.00	349886.81	23276.39	4.39	-2.17	6.04	2.47	1.88	-5.64
480.00	351185.41	24225.91	4.12	-2.01	5.72	1.64	3.42	-5.33
490.00	353035.59	25167.68	3.86	-1.86	3.86	3.86	-1.86	-1.86

$FIN

Table I-2. Maximum Aerodynamic Heating (HW) Trajectory Data

DYNETICS - WIR - HEADWIND

TIME (SEC.)	ALTITUDE (FEET)	REL. VEL. (FEET/SEC.)	ALPHA (DEG)	BETA (DEG)	ALPHA+ (DEG)	ALPHA- (DEG)	BETA+ (DEG)	BETA- (DEG)
.00	334.03	.00	-90.00	.00	-90.00	-90.00	.00	.00
5.00	526.98	86.68	2.80	15.17	3.56	2.11	16.00	14.44
10.00	1220.27	196.48	3.47	6.94	4.21	2.87	7.84	6.20
15.00	2492.62	318.18	.72	1.06	1.50	-.22	1.69	.31
20.00	4374.79	454.68	-2.55	-1.61	-1.84	-3.86	-.94	-2.23
25.00	6902.27	601.77	-4.99	-.89	-3.78	-6.09	-.42	-1.31
30.00	10031.37	724.39	-4.92	-.20	-4.04	-6.50	.35	-.67
35.00	13632.30	837.67	-4.26	.20	-3.40	-5.16	.90	-.42
40.00	17648.25	949.57	-3.86	.30	-3.10	-4.61	1.06	-.38
45.00	22026.33	1058.44	-4.35	.47	-3.69	-4.99	1.07	-.07
50.00	26730.64	1168.17	-4.89	.54	-4.17	-5.60	1.21	.02
55.00	31744.59	1281.52	-4.55	.65	-3.86	-5.34	1.35	.03
60.00	37072.67	1418.25	-4.99	.56	-3.55	-5.19	1.34	-.07
65.00	42831.98	1605.31	-3.32	.48	-2.04	-4.81	1.17	-.06
70.00	49135.09	1823.98	-2.30	.38	-.97	-3.95	.96	-.08
75.00	56020.14	2071.87	-1.27	.32	.57	-3.28	.88	-.13
80.00	63503.73	2348.34	-.34	.47	1.26	-2.68	1.16	-.14
85.00	71570.70	2636.59	-1.15	.62	.96	-3.50	1.61	-.36
90.00	80210.79	2931.84	-1.21	.63	.99	-3.99	1.88	-.41
92.00	83822.38	3054.23	-1.06	.90	1.13	-4.06	2.00	-.29
94.00	87521.12	3177.95	-.94	1.17	1.12	-3.77	2.26	.12
96.00	91302.49	3301.56	-.99	.78	1.05	-3.56	1.95	-.28
98.00	95163.43	3426.43	-.94	.73	1.06	-3.40	2.01	-.32
100.00	99101.66	3551.69	-.96	.82	.98	-3.37	2.10	-.23
102.00	103113.11	3677.03	-1.00	.90	.92	-3.33	2.25	-.10
104.00	107194.47	3801.82	-1.03	.98	.87	-3.33	2.27	-.03
106.00	111341.45	3924.80	-1.04	1.01	.84	-3.33	2.30	.00
108.00	115547.49	4046.17	-1.01	1.01	.80	-3.30	2.32	.04
110.00	119806.43	4161.61	-.98	.97	.87	-3.21	3.48	-1.40
112.00	124103.92	4258.22	-.55	1.02	.98	-2.91	5.16	-3.13
114.00	128411.66	4325.11	-.10	1.08	1.53	-2.32	4.67	-2.54
116.00	132700.95	4371.12	.56	1.15	2.16	-1.72	3.23	-.93
118.00	136954.97	4407.84	.87	1.20	2.71	-1.43	2.24	.19
120.00	141165.52	4437.97	.59	1.04	2.48	-1.68	2.34	-.21
122.00	145328.49	4463.82	.09	.78	1.95	-2.34	2.45	-.96
124.00	149445.13	4493.89	-.38	.65	1.48	-2.85	2.18	-.99
126.00	153520.54	4528.17	-.84	.61	1.01	-3.32	2.01	-.96
128.00	157555.16	4563.22	-1.28	.56	1.24	-3.68	1.95	-1.02
130.00	161549.30	4599.02	-1.71	.53	5.25	-4.11	1.91	-1.11
140.00	180840.51	4795.28	1.95	.00	3.57	1.24	1.58	-1.14
150.00	198923.88	5012.28	.47	-.07	3.97	-3.84	1.41	-1.33
160.00	215822.05	5247.98	-.91	-.04	2.23	-4.98	1.42	-1.21
170.00	231562.91	5501.66	-2.16	.02	.74	-5.92	1.46	-1.09
180.00	246173.31	5772.77	-3.30	-.05	-.65	-6.80	1.35	-1.11
190.00	259681.76	6060.84	-4.27	-.12	-1.84	-7.51	1.26	-1.13
200.00	272118.19	6365.55	-5.10	-.19	-2.85	-8.09	1.18	-1.15
210.00	283512.96	6686.75	-5.73	-.25	-3.69	-8.50	1.15	-1.16
220.00	293897.02	7024.44	-6.22	-.32	-4.35	-8.77	1.15	-1.18
230.00	303301.75	7378.72	-6.56	-.38	-4.86	-8.92	1.17	-1.16
240.00	311761.61	7749.85	-6.81	-.43	-5.25	-8.97	1.21	-1.12
250.00	319310.41	8138.22	-6.90	-.49	-5.49	-8.88	1.26	-1.12

Table I-2. Maximum Aerodynamic Heating (HW) Trajectory Data (Concluded)

260.00	325983.84	8544.34	-6.89	-.54	-5.63	-8.69	1.34	-1.13
270.00	331818.61	8968.86	-6.77	-.59	-5.65	-8.40	1.45	-1.14
280.00	336853.06	9412.55	-6.56	-.64	-5.57	-8.04	1.59	-1.16
290.00	341126.96	9876.35	-6.29	-.69	-5.41	-7.60	1.79	-1.17
300.00	344683.19	10361.32	-5.92	-.74	-5.15	-7.08	2.04	-1.20
310.00	347565.20	10868.72	-5.48	-.78	-4.82	-6.48	2.07	-1.38
320.00	349820.37	11399.97	-4.97	-.82	-4.42	-5.83	1.60	-1.85
330.00	351498.32	11956.70	-4.41	-.86	-3.95	-5.13	1.16	-2.31
340.00	352651.74	12540.78	-3.81	-.90	-3.42	-4.40	.75	-2.72
350.00	353337.84	13154.35	-3.15	-.94	-2.81	-3.62	.36	-3.09
360.00	353617.33	13799.86	-2.45	-.98	-2.13	-2.83	.00	-3.47
370.00	353556.84	14480.13	-1.73	-1.01	-1.41	-2.09	-.33	-3.84
380.00	353228.75	15198.42	-.98	-1.04	-.62	-1.38	-.60	-4.12
390.00	352711.82	15958.53	-.23	-1.06	.21	-.70	-.81	-4.33
400.00	352094.81	16764.91	.53	-1.08	1.27	-.03	-.93	-4.54
410.00	351474.73	17622.83	1.26	-1.10	2.56	.61	-.98	-4.71
420.00	350951.65	18538.60	1.98	-1.12	3.36	1.21	-.98	-4.82
430.00	350622.74	19479.46	2.61	-1.15	3.88	1.75	-.94	-4.94
440.00	350530.68	20421.84	3.15	-1.17	4.44	2.12	-.79	-4.99
450.00	350706.20	21366.41	3.58	-1.19	5.01	2.43	-.64	-4.96
460.00	351193.20	22312.23	3.90	-1.20	5.51	2.46	.47	-4.56
470.00	352036.79	23260.64	4.06	-1.19	5.72	2.15	2.86	-4.66
480.00	353292.12	24210.46	4.45	-1.30	6.09	1.97	4.13	-4.32
490.00	355026.25	25150.72	5.41	-1.33	5.41	5.41	-1.33	-1.33
500.00	357216.82	25629.46	6.28	-1.38	6.22	**********	-1.28	-1.38

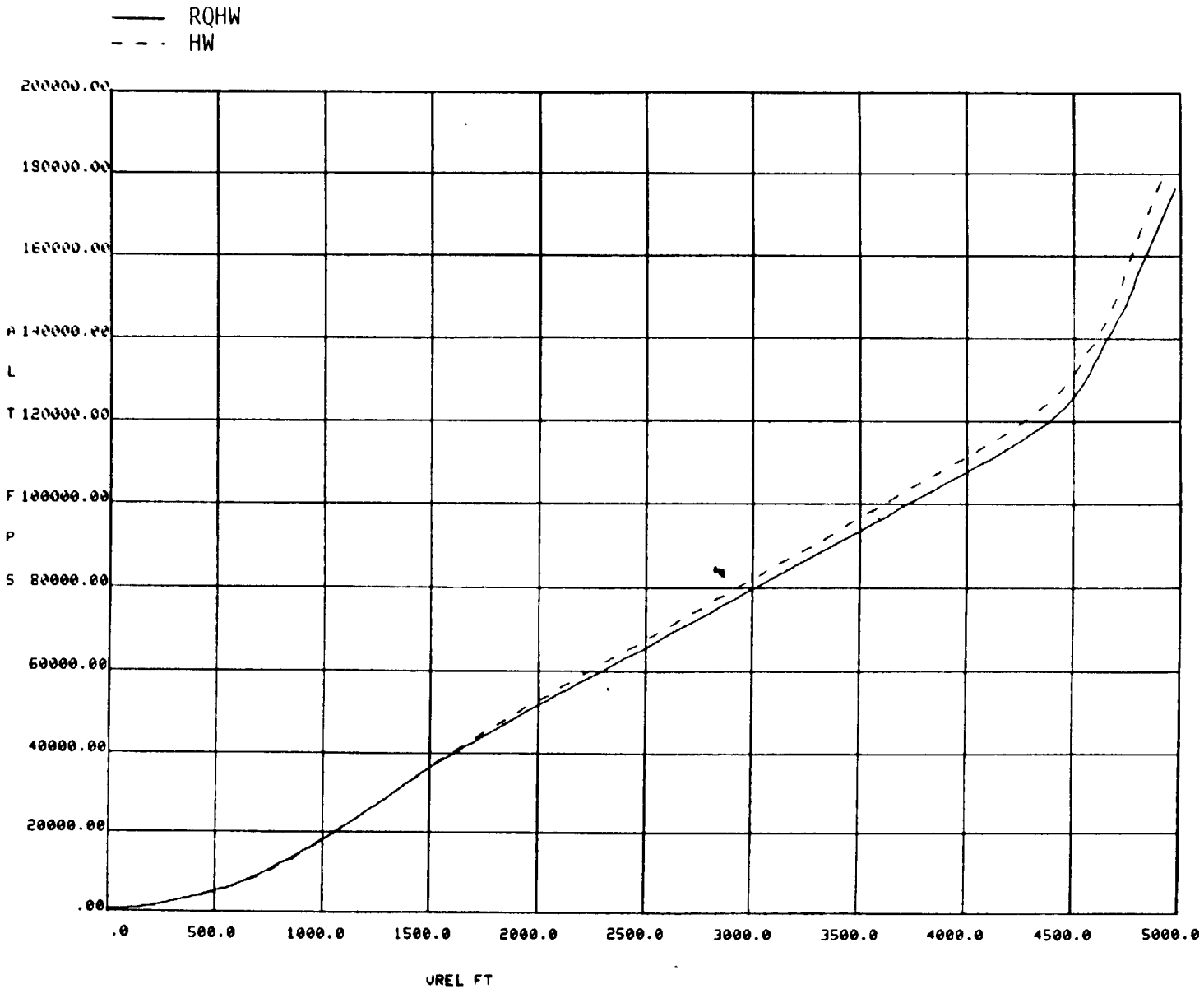

Figure I-1. Relative Velocity versus Altitude (First Stage)

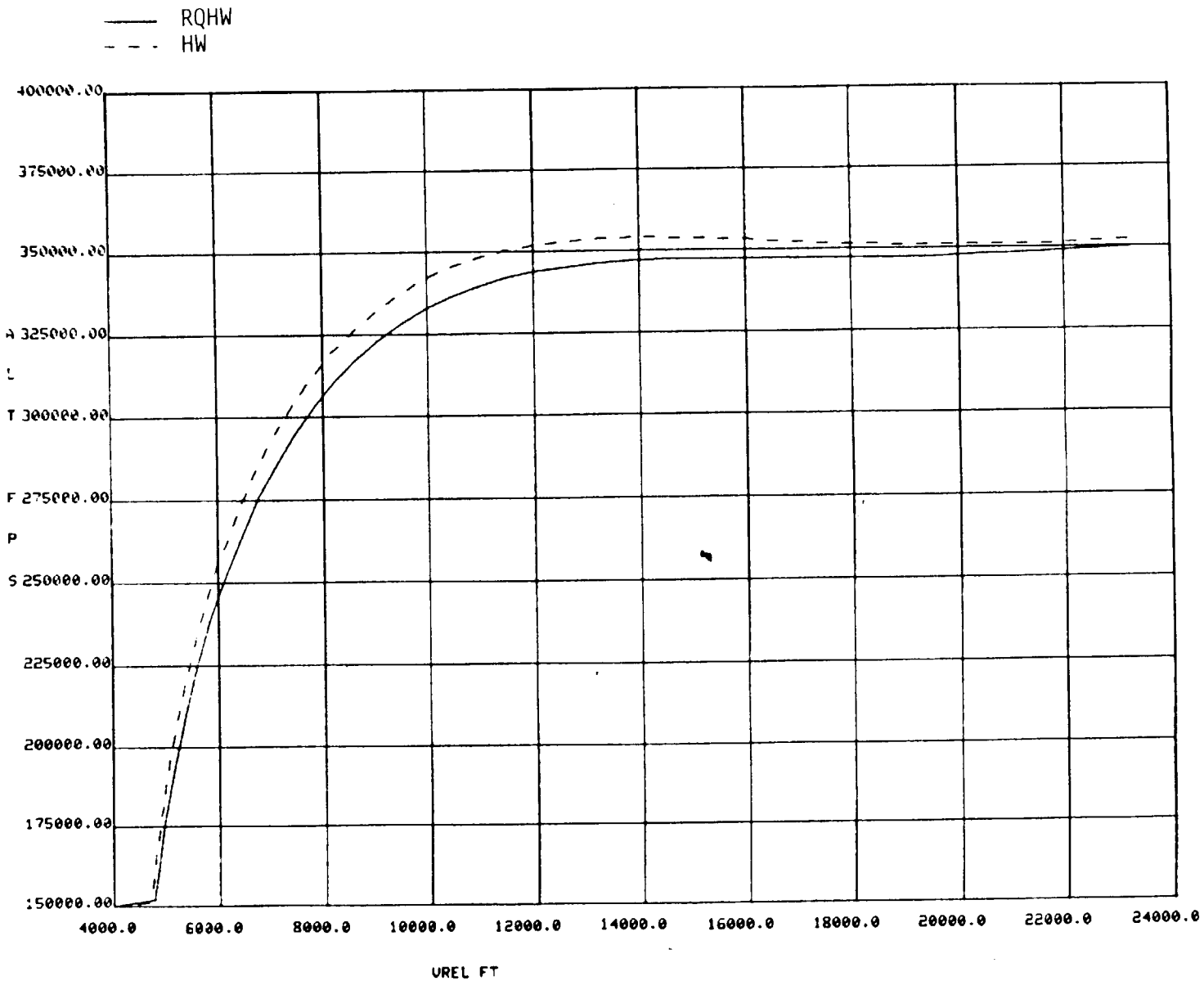

Figure I-2. Relative Velocity versus Altitude (Second Stage)

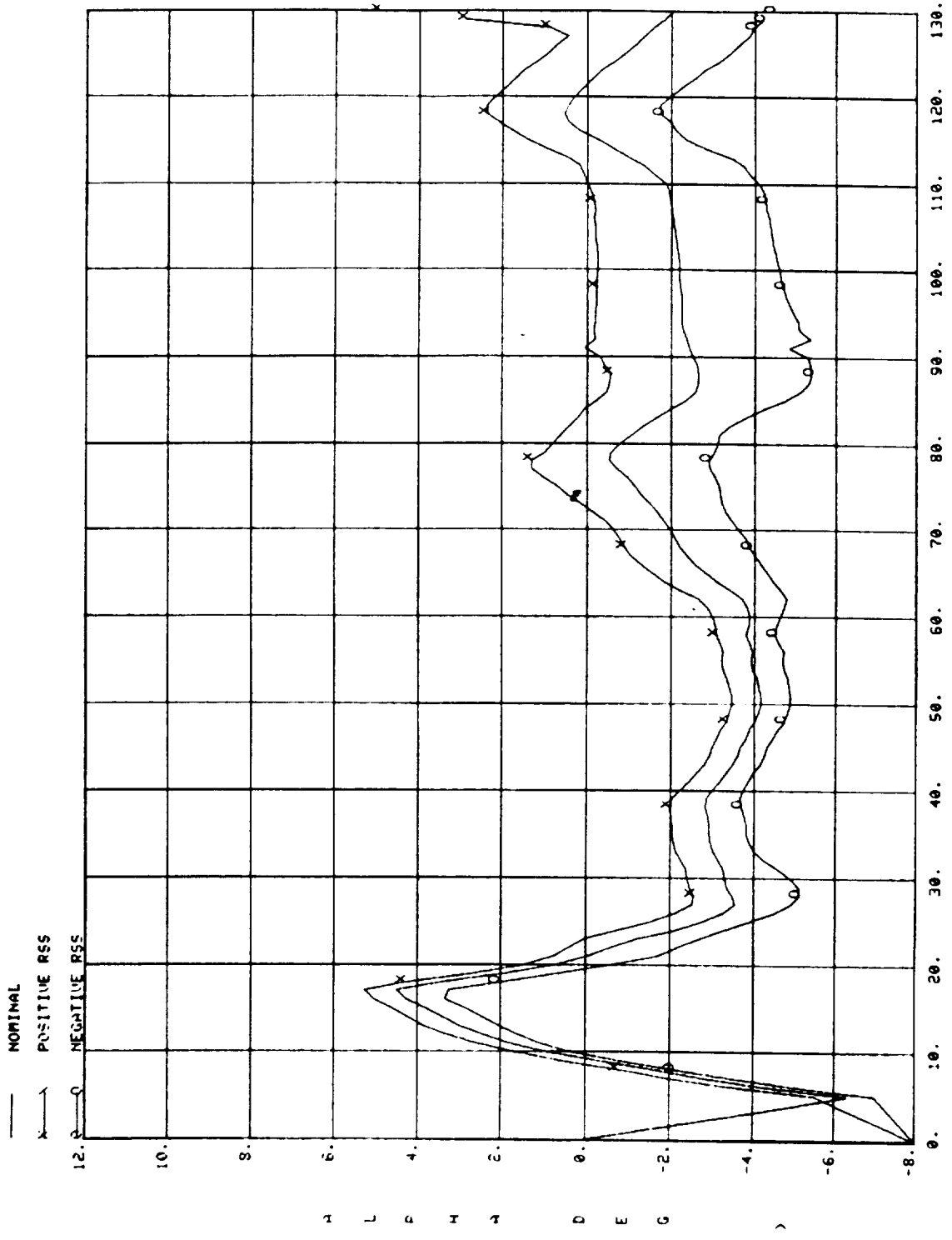

Figure I-3. Angle of Attack History for RQHW Case with System RSS Dispersions Added

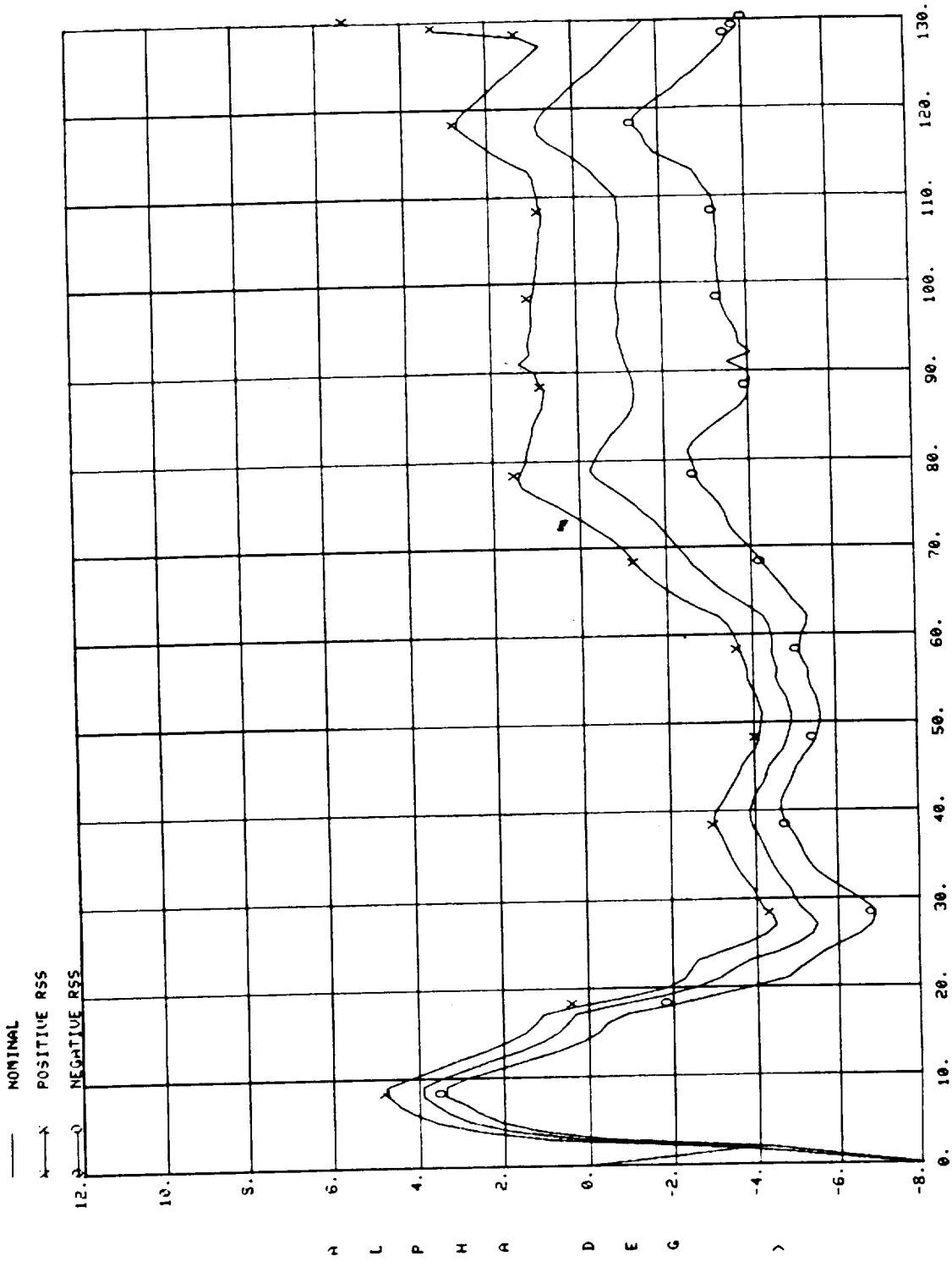

Figure I-4. Angle of Attack History for HW Case with System RSS Dispersions Added

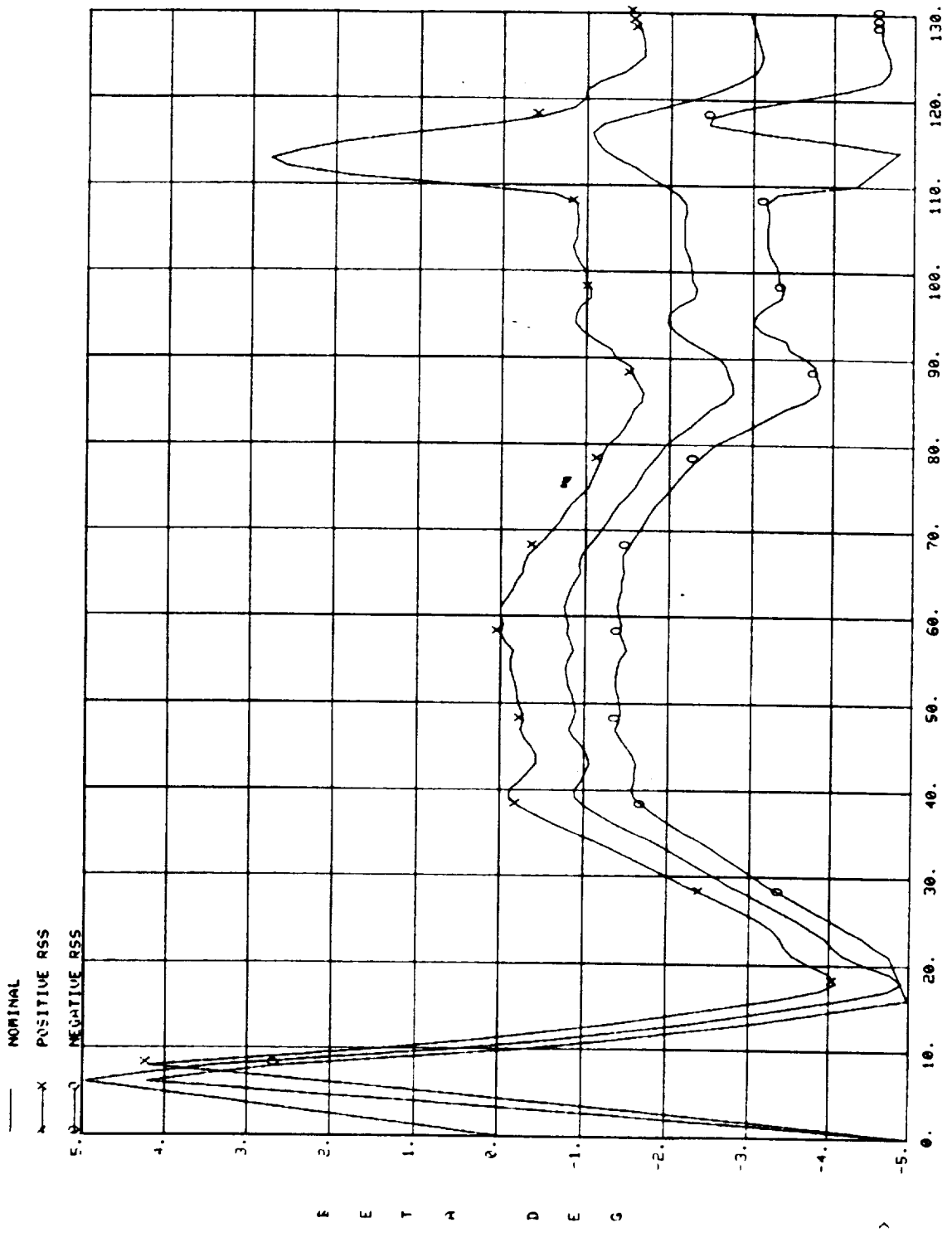

Figure I-5. Sideslip Angle History for RQHW Case with System RSS Dispersions Added

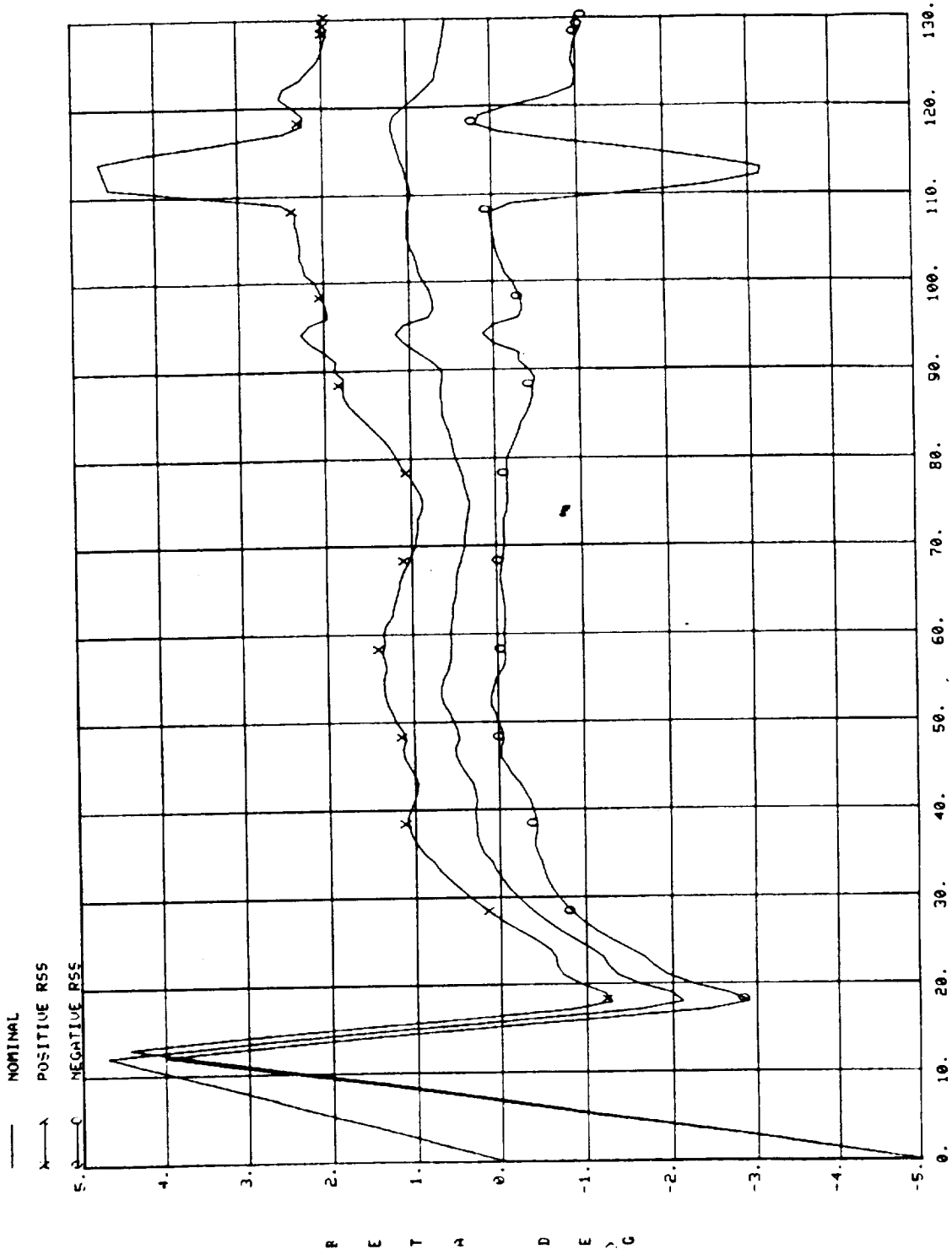

Figure I-6. Sideslip Angle History for HW Case with System RSS Dispersions Added

APPENDIX J—PLOT PROGRAM LISTING

The following program has been used in the automation of plots used in this report. This program was written by Mr. Sam Powell of Boeing Computer Services and has been designed to use the files generated by the trajectory and RSS programs.

DYN*PLOT(1).PLOTS

```
      COMPILER(LINK=IRJS)
      INTEGER S1,S2
      DIMENSION X(180),Y(180)
      DIMENSION IVR(10)
      CHARACTER*8 TEXT
      CHARACTER*14 HORNUM
      DIMENSION B(12)
           DIMENSION YMN(13),YMX(13)
      DIMENSION LINTYP(10)
      CHARACTER*20 TITLE
      CHARACTER*4 CIVAR
           CHARACTER*6 YNAME
           CHARACTER*8 RSTRT
           CHARACTER*6 NOM(13)
      CHARACTER*6 XNAME
      CHARACTER*12 LXNAME
      DIMENSION NPNTS(6)
           LOGICAL DEMAND
           CHARACTER*4 DUMMY
      INTEGER SIRTRN,FINLRN
           CHARACTER*8 CURVNM
           INTEGER RNSTRT(10),RNFINL(10)
      CHARACTER*12 LVAROT(13)
      CHARACTER*24 DESARY(5,12)
      CHARACTER*24 CDSRP(6)
      CHARACTER*8 TAGS
      CHARACTER*12 LVARNM
      CHARACTER*1 CHARON
      CHARACTER*2 CHARTW
      DATA (LVAROT(M),M=1,13)/'TIME(SEC)','ALPHA (DEG)','BETA (DEG)',
     1'AHI BTU/SQFT','DYNPRES PSF','ALT FPS','VR1 FPS',
     2'VEL FT','RADIUS FT','VIN FPS','GAMMA DEG','MACH','BLA'/
      DATA (NPNTS(I),I=1,6)/6*180/
      DATA TITLE/'COPIER PLOT          '/
           DATA NVGRID/10/
      DATA (DESARY(1,J),J=1,11)/'SRM WAT','SRM THRUST','SRM ISP',
     1'SRM THRUST MISMATCH','SRM ISP MISMATCH',
     2'SRM THRUST MISALIGN(P)','SRM THRUST MISALIGN(Y)',
     3'SSME VACUUM THRUST','SSME VACUUM ISP','SSME THRUST MISALIGN(P)',
     4'SSME THRUST MISALIGN(Y)'/
      DATA (DESARY(2,J),J=1,8)/'CA','CN','CM','CY','CNB','CL',
     1'BASE FORCE','ATMOSPHERE'/
      DATA (DESARY(3,J),J=1,9)/'ET PROP WT','SRB PROP WT','SRB INRT WT',
     1'2ND STG INERT WT','VEH CG(X STG 1','VEH CG (Y) STG 1',
     2'VEH CG (Z) STG 1','VEH CG (X) STG 2','VEH CG (Z) STG 2'/
      DATA (DESARY(4,J),J=1,8)/'ACCEL ERROR (NORM)','ACCEL ERROR (LAT)',
     1'RATE GYRO NORMAL','RATE GYRO LAT','IMU PLAT (P)','IMU PLAT (Y)',
     2'IMU PLAT (R)','MECO TARGET'/
      DATA (NOM(J),J=1,13)/'TIME','ALPHA','BETA','AHI ','QATM','ALT',
     +'VR1 ','VPEL','RADIUS','VIN ','GAMI','MACH','PLAN'/
           DATA NHGRID/10/
           DATA (YMN(J),J=1,13)/0.,-20.,-15.,0.,0.,0.,0.,
     +0.,0.,-10.,0.,1./
      DATA (YMX(J),J=1,13)/0.,20.,5.,500.,800.,500000.,24000.,24000.,
     +22000000.,26000.,30.,25.,10./
C
```

```
      C
            S1=0
            S2=780
            YMIN=0.
            YMAX=11.
            ICPS=120
            DEFINE FILE 8(17000,13,U,IP1
                DEMAND=.TRUE.
            CALL INITT(ICPS)
            CALL TERM(3,1024)
      C
            CALL TSEND
            CALL CHRSIZ(1)
            PRINT *,' COPTER PLOT PROGRAM'
            CALL TSEND
            CALL CHRSIZ(4)
            CALL TSEND
            PRINT *,'  '
            PRINT *,'  '
            PRINT *,'  '
            PRINT *,'  '
            PRINT *,'  '
      C   INITIAL MENU
      C
        100 CONTINUE
            PRINT *,'PLEASE SELECT:'
            PRINT *,' 0 - TERMINATE'
            PRINT *,' 1 - READ AND LIST A DATA FILE'
            PRINT *,' 2 - PLOT A DATA FILE'
            PRINT *,' 3 - GUIDE TO THE PROGRAM'
            PRINT *,' 4 - EXPLAINATION OF THE IVAR NUMBERS'
            PRINT *,' 5 - LOOK AT N201 RECORDS'
            PRINT *,' 6 - LOOK FOR 9999'
            PRINT *,' 7 - SET NUMBER OF GRID LINES FOR PLOT'
            PRINT *,' 8 - DRAW 3 SIGMA SUMMARY'
            PRINT *,' 9 - INDIVIDUAL WIND CASES WITH RSS'
              PRINT *,'10 - 4 SUMMARY PLOTS'
            READ(5,*)ISEL
            IF(ISEL.EQ.0)STOP 'LEAVING PLOT PACK'
            IF(ISEL.EQ.1)GO TO 2000
            IF(ISEL.EQ.9)THEN
                  CALL CIA
                 GOTO 100
            ENDIF
            IF(ISEL.EQ.10)THEN
                  CALL FOURSM
                  GOTO100
            ENDIF
            IF(ISEL.EQ.8)THEN
                CALL SIGMA
                GOTO100
            ENDIF
            IF(ISEL.EQ.7)THEN
                  PPINT *,'INPUT NUMBER OF HORIZONTAL LINES'
                 READ(5,*)NHGRID
                  PRINT *,'INPUT NUMBER OF VERTICAL LINES'
                  READ(5,*)NVGRID
```

```
114                 GO TO 100
115               ENDIF
116               IF(ISEL.GT.6)GO TO 100
117               IF(ISEL.EQ.2)GO TO 5500
118               IF(ISEL.EQ.3)THEN
119                  CALL HPPROG
120                  GO TO 100
121               ENDIF
122               IF(ISEL.EQ.6)GO TO 5520
123               IF(ISEL.EQ.4)THEN
124                  CALL HPIVAR
125                  GO TO 100
126               ENDIF
127         C
128         C           NEW CODE FOR OPT 5
129               PRINT *,'SPECIFY LAST RECORD TO READ:'
130               READ(5,5501)LREC
131               CALL ERASE
132               LCOUNT=1
133               CALL TWAIT(2000)
134               WRITE(6,3000)
135          5501   FORMAT(I5)
136               DO 5505 K=1,LREC,200
137               READ(8'K,ERR=1300)B,IVAR
138               KP1=K+1
139               WRITE(6,4000)K,(B(J),J=1,12),IVAR
140               READ(8'KP1,ERR=1300)B,IVAR
141               WRITE(6,4000)KP1,(B(J),J=1,12),IVAR
142               LCOUNT=LCOUNT+2
143               IF(LCOUNT.GT.55)THEN
144                  READ(5,2020)DUMMY
145                  CALL ERASE
146                  CALL TWAIT(2000)
147                  LCOUNT=1
148               ENDIF
149          5505    CONTINUE
150               GO TO 100
151          5520    CONTINUE
152               NR=1
153               NEWNR=1
154          5530   READ(8'NEWNR,ERR=1399)B,IVAR
155               WRITE(6,5531)NEWNR,IVAR
156          5531   FORMAT(' STARTING ',I6,' IVAR ',I4)
157               KSTART=NEWNR
158               DO 5540 NR=KSTART,15000,1
159          5513 READ(8'NR,ERR=1398)B,IVAR
160               IF(IVAR.EQ.9999)THEN
161                  PRINT *,'FOUND 9999 ',NR,IVAR
162                  NEWNR=200*(NR/200+1)+1
163               IF(NEWNR.EQ.8201.OR.NEWNR.EQ.8401)NEWNR=NEWNR+200
164                  GO TO 5530
165               ENDIF
166          5540   CONTINUE
167               GO TO 100
168          5500 XMIN=0.
169               XMAX=500.
170               MAXX=(XMAX+.001)/50.
```

```
      PRINT *,' CHOOSE BY NUMBER X VARIABLE FOR PLOT'
      DO 646 K=1,12
      WRITE(6,644)K,NOM(K)
  644   FORMAT(2X,I4,1H-,A6)
  646   CONTINUE
      READ(5,*)IXVAR
      XNAME=NOM(IXVAR)
      LXNAME=LVARDT(IXVAR)
        PRINT *,'CHOOSE BY NUMBER VARIABLE TO PLOT'
      DO 46 K=2,12
      WRITE(6,44)K,NOM(K)
   44   FORMAT(2X,I4,1H-,A6)
   46   CONTINUE
      READ(5,*)IYVAR
      YNAME=NOM(IYVAR)
      LVARNM=LVARDT(IYVAR)
      PRINT *,'Y LABEL ',LVARNM
          PRINT *,'THE DEFAULT X AXIS IS 0 TO 500'
          PRINT *,' 0 - TAKE DEFAULT X-AXIS'
          PRINT *,' 1 - SPECIFY NEW XMIN  XMAX'
          READ(5,*)NLARGX
          IF(NLARGX.EQ.1)THEN
            PRINT *,'SPECIFY XMIN'
          READ(5,36)XMIN
   36   FORMAT(F14.2)
            PRINT *,'SPECIFY XMAX'
          READ(5,36)XMAX
          ENDIF
          WRITE(6,37)YNAME,YMN(IYVAR),YMX(IYVAR)
   37   FORMAT(2X,'THE DEFAULT Y-AXIS FOR ',A4,' IS',F14.2,' TO ',F14.2)
          PRINT *,' 0 - TAKE DEFAULT Y AXIS'
          PRINT *,' 1 - SPECIFY YMIN & YMAX'
          READ(5,*)NLARGY
          IF(NLARGY.EQ.1)THEN
            PRINT *,'SPECIFY YMIN'
          READ(5,36)YMIN
          PRINT *,'SPECIFY YMAX'
          READ(5,36)YMAX
          ELSE
            YMIN=YMN(IYVAR)
          YMAX=YMX(IYVAR)
          ENDIF
          FHGRID=FLOAT(NHGRID)
          DELY=(YMAX-YMIN)/FHGRID
  402   FORMAT(A8)
          RLLOC=YMAX+DELY*.90
          PRINT *,'SPECIFY NUMBER OF CURVES'
          READ(5,*)NCURVE
  102   PRINT *,'PLEASE SELECT'
        PRINT *,' 1-SPECIFY BY RECORD NUMBERS'
        PRINT *,' 2-SPECIFY BY IVAR NUMBERS'
        READ(5,*)IIVR
        IF(IIVR.EQ.2)THEN
          DO 209 KK=1,NCURVE
          PRINT *,'SPECIFY IVAR FOR CURVE',KK
          READ(5,69)IVR(KK)
   69     FORMAT(I4)
```

```
      ENCODE(4,655,CIVAR)IVR(KK)
      IF(IVR(KK).EQ.0010)THEN
        CDSRP(KK)='NOMINAL     '
        GOTO 236
      ENDIF
  655   FORMAT(I4)
  656   FORMAT(I1)
  657   FORMAT(I2)
      CHARON(1:1)=CIVAR(1:1)
      CHARTW(1:2)=CIVAR(2:3)
      DECODE(1,656,CHARON)IFRST
      DECODE(2,657,CHARTW)ISCND
      CDSRP(KK)=DESARY(IFRST,ISCND)
      IF(CIVAR(4:4).EQ.'0')THEN
          CDSRP(KK)(24:24)='+'
      ELSE
          CDSRP(KK)(24:24)='-'
      ENDIF
  236 PRINT *,'DES = ',CDSRP(KK)
 2090 CONTINUE
      KK=1
 2091 NNR=1
 2092 READ(8,NNR,ERR=2092)B,IVAR
      IF(IVAR.EQ.IVR(KK))THEN
          RNSTRT(KK)=NNR
      PRINT *,'CURVE NUMBER ',KK,' STARTING RECORD',RNSTRT(KK)
          RNFINL(KK)=RNSTRT(KK)+180
          KK=KK+1
          IF(KK.GT.NCURVE)GO TO 2009
          GO TO 2091
        ENDIF
        NNR=NNR+200
      IF(NNR.GT.16500)THEN
          PRINT *,'UNABLE TO FIND THIS IVAR'
          GO TO 102
      ENDIF
        GOTO 2092
      ENDIF
          DO 2009 KK=1,NCURVE
          PRINT *,'SPECIFY STARTING RECORD FOR CURVE  ',KK
          READ(5,*)RNSTRT(KK)
          RNFINL(KK)=RNSTRT(KK)+180
 2009 CONTINUE
      PRINT *,'THE LINE TYPES ARE: '
      PRINT *,' 1- SOLID LINE'
      PRINT *,' 2- DOT-DOT'
      PRINT *,' 3- DASH-DASH'
      PRINT *,' 4- DASH-DOT'
      PRINT *,' 5- DASH-DOT-DOT'
      DO 3414 KK=1,NCURVE
  156 PRINT *,'SPECIFY LINE TYPE FOR CURVE ',KK
      READ(5,*)LINTYP(KK)
      IF(LINTYP(KK).GT.5 .OR.LINTYP(KK).LT.1)THEN
        PRINT *,'LINE TYPE MUST BE 1 TO 5'
        GO TO 156
      ENDIF
 3414 CONTINUE
```

```
295                KK=1
286          3400  CONTINUE
287                DELXX=(XMAX-XMIN)/NVGRID
288              XLOC=XMIN+DELXX
289              XSTRT=XMIN
290              XNOW=XMIN+DELXX
291              IF(KK.GT.3)XNOW=XMIN+DELXX*6.
292              IF(KK.GT.3)XSTRT=XMIN+DELXX*5.
293              XEND=XSTRT+DELXX*.5
294                 NR=RNSTRT(KK)
295                 DO 2012 II=1,180
296          2011 READ(8'NR,ERR=1300)B,IVAR
297              IF(II.EQ.1)IVR(KK)=IVAR
298                 X(II)=B(IXVAR)
299                 Y(II)=B(IYVAR)
300              IF(IVAR.EQ.9999)THEN
301                 NPNTS(KK)=II-1
302                 GO TO 2013
303              ENDIF
304                 NR=NR+1
305                 IF(NR.GT.ENDFIL(KK))GO TO 2013
306          2012 CONTINUE
307          2013 CONTINUE
308                 IF(KK.GT.1)GO TO 17
309              TEMP=10.*(YMAX-YMIN)/100.
310              YMINM=YMIN-TEMP
311              YMAXM=YMAX+TEMP
312                 TEMPX=(XMAX-XMIN)/10.
313                 XMINM=XMIN-TEMPX
314                 XMAXM=XMAX+TEMPX
315                 CALL ERASE
316              CALL DWINDO(XMINM,XMAXM,YMINM,YMAXM)
317              CALL IWINDO(0,1023,S1,S2)
318              CALL TSEND
319          C   DRAW A FRAME AROUND THE PLOT
320          C
321                 DELXX=(XMAX-XMIN)/NVGRID
322                 YTOP=YMAX+2.*DELY
323                 YNEX=YMAX+1.*DELY
324                 XLOC=(XMAX+XMIN)/2
325              CALL CHRSIZ(1)
326              CALL TSEND
327              XTITLE=XLOC-DELXX
328          C   CALL LABELA(XTITLE,YTOP,TITLE,20)
329          C
330          C      CALL LABELA(XTITLE,YNEX,YNAME,6)
331              CALL TSEND
332              CALL CHRSIZ(4)
333              CALL TSEND
334              CALL MOVEA(XMIN,YMIN)
335              CALL DRAWA(XMAX,YMIN)
336              CALL DRAWA(XMAX,YMAX)
337              CALL DRAWA(XMIN,YMAX)
338              CALL DRAWA(XMIN,YMIN)
339              CALL TSEND
340                 DELXX=(XMAX-XMIN)/NVGRID
341              XLOC=XMIN+DELXX
```

```
      XSTRT=XMIN
      XNOW=XMIN+DELXX
      IF(KK.GT.3)XNOW=XMIN+DELXX*6.
      IF(KK.GT.3)XSTRT=XMIN+DELXX*5.
      XEND=XSTRT+DELXX*.5
C
C     DRAW THE VERTICAL GRID LINES
C
      VAL=XMIN
      DO 10 I=1,NVGRID+1
         IF(VAL.GT.XMAX)GO TO 10
      CALL MOVEA(VAL,YMIN)
      CALL DRAWA(VAL,YMAX)
      ENCODE(3,TEXT)VAL
    3   FORMAT(F8.1)
         YSY=YMIN-DELY/3
         XXVAL=VAL-TEMPX/2.
      CALL LABELA(XXVAL,YSY,TEXT,8)
      VAL=VAL+DELXX
   10   CONTINUE
C
C     DRAW THE HORIZONTAL GRID LINES
C
      VALY=YMIN
      DO 16 I=1,NHGRID+1
      CALL MOVEA(XMIN,VALY)
      CALL DRAWA(XMAX,VALY)
      ENCODE(19,HORNUM)VALY
   19   FORMAT(F11.2)
         XXXX=XMIN-TEMPX*1.
      CALL LABELA(XXXX,VALY,HORNUM,12)
      VALY=VALY+DELY
         IF(VALY.GT.YMAX)GO TO 17
   16   CONTINUE
   17   CONTINUE
      IF(KK.GT.1)GOTO38;
      CALL TSEND
      TITLE=' '
      TITLE(1:12)=LVARNM
      YSTART=YMAX-DELY*3.0
      YYPUT=YSTART
      YDLTA=DELY*.5
      XXPUT=XMIN-DELXX*.95
      DO 3200 K=1,12
      TAGS(1:1)=LVARNM(K:K)
      CALL LABELA(XXPUT,YYPUT,TAGS,1)
      YYPUT=YYPUT-YDLTA
 3200    CONTINUE
      CALL TSEND
      TITLE=LVARDT(IXVAR)
      XTITLE=XMIN+DELXX*3.
      YTITLE=YMIN-DELY*.9
      CALL LABELA(XTITLE,YTITLE,TITLE,10)
      CALL TSEND
  381 CALL MOVEA(XMIN,YMIN)
      DO 1000 I=1,NPNTS(KK)
         IF(X(I).LT.XMIN .OR. X(I).GT.XMAX)GO TO 1000
```

```
399            IF(Y(I).LT.YMIN .OR. Y(I).GT.YMAX)GO TO 1000
400                IF(LINTYP(KK).EQ.2)THEN
401              CALL DASHA(X(I),Y(I),12)
402              ELSE
403             +IF(LINTYP(KK).EQ.3)THEN
404              CALL DASHA(X(I),Y(I),34)
405              ELSE
406             +IF(LINTYP(KK).EQ.4)THEN
407              CALL DASHA(X(I),Y(I),21
408              ELSE IF(LINTYP(KK).EQ.5)THEN
409                CALL DASHA(X(I),Y(I),321212)
410              ELSE
411                CALL DRAWA(X(I),Y(I))
412              ENDIF
413       1000  CONTINUE
414              CALL TSEND
415              IF(KK.GT.6)GO TO 259
416                  ENCODE(32,CURVNM)RNSTRT(KK)
417         32    FORMAT('NR',I6)
418                  XTO=XLOC+DELXX/2
419                  CALL MOVEA(XSTRT,RLLOC)
420              IF(LINTYP(KK).EQ.2)THEN
421                CALL DASHA(XEND,RLLOC,12)
422               ELSEIF(LINTYP(KK).EQ.3)THEN
423                CALL DASHA(XEND,RLLOC,34)
424              ELSE IF(LINTYP(KK).EQ.4)THEN
425                CALL DASHA(XEND,RLLOC,21)
426              ELSE IF(LINTYP(KK).EQ.5)THEN
427                CALL DASHA(XEND,RLLOC,321212)
428                ELSE
429              CALL DRAWA(XEND,RLLOC)
430              ENDIF
431                  XXLOC=XLOC+DELXX
432                  XXXLOC=XLOC+DELXX*2
433                  ENCODE(21,RSTRT)IVR(KK)
434         21    FORMAT('IVR=',I4)
435                  CALL LABELA(XNOW,RLLOC,CDSRP(KK),24)
436         C        CALL LABELA(XXXLOC,RLLOC,RSTRT,8)
437                  RLLOC=RLLOC-DELY*.3
438         259      CALL TSEND
439                  KK=KK+1
440              IF(KK.GT.3)XLOC=XMIN+5.*DELXX
441              IF(KK.EQ.4)RLLOC=YMAX+DELY*.9
442                  IF(KK.LE.NCURVE)GO TO 3406
443                  READ(5,2020)DUMMY
444              IF(DUMMY(1:2).EQ.'ZO')THEN
445                 PRINT *,'SPECIFY LOWER LEFT CORNER'
446                 CALL VCURSR(LETTER,XMIN,YMIN)
447                 PRINT *,'SPECIFY UPPER RIGHT CORNER'
448                 CALL VCURSR(LETTER,XMAX,YMAX)
449                 KK=1
450                 DELY=(YMAX-YMIN)/FNGRID
451                 RLLOC=YMAX+DELY*.9
452                 CALL NEWPAG
453                DELXX=(XMAX-XMIN)/NVGRID
454                 XLOC=XMIN+DELXX
455               XSTRT=XMIN
```

```
      GO TO 3406
    ENDIF
    IF(DUMMY(1:2).EQ.'DE')THEN
      XMIN=0.
      XMAX=500.
      YMIN=YMN(IYVAR)
      YMAX=YMX(IYVAR)
      DELY=(YMAX-YMIN)/FNGRID
      KK=1
      RLLOC=YMIN-DELY
      CALL NEWPAG
      DELXX=(XMAX-XMIN)/NVGRID
      XLOC=XMIN+DELXX
      GO TO 3406
    ENDIF
      CALL ERASE
      CALL HOME
      CALL RECOVR
      CALL TWAIT(5000)
      GO TO 100
2500 CONTINUE
    CALL CHRSIZ(4)
    PRINT *,'ENTER STARTING RECORD NUMBER'
    READ(5,*)STRTRN
    NR=STRTRN
    PRINT *,'ENTER ENDING RECORD NUMBER'
    READ(5,*)FINLRN
2017 IF(DEMAND)CALL ERASE
    IF(DEMAND)CALL TWAIT(5000)
    WRITE(6,3000)
3000 FORMAT(15X,'NR',3X,'TIME',2X,'ALPHA',4X,'BETA',4X,'AHI',5X,
   +'OATM',6X,'ALT',7X,'VR1',6X,'VREL',8X,'RADIUS',7X,'VIN',6X,
   +'GAMI',7X,'MACH',2X,'IVAR')
      NLINES=0
2010 READ(8'NR,ERR=1300)B,IVAR
    WRITE(6,4000)NR,(B(J),J=1,12),IVAR
4000 FORMAT(1X,I6,2F7.2,3E8.2,3E10.2,F16.2,F10.2,2F7.2,2X,I4)
    NR=NR+1
    IF(NR.GT.FINLRN)GO TO 100
      NLINES=NLINES+1
      IF(NLINES.GT.50)THEN
2040  FORMAT(1H1)
        IF(DEMAND)READ(5,2020)DUMMY
2020 FORMAT(A4)
        GO TO 2017
      ENDIF
    GO TO 2010
1300 CONTINUE
    PRINT *,'ERROR READING NR ',NR
    GO TO 100
1399  PRINT *,'ERROR 1399 NEWNR= ',NEWNR
    NEWNR=NEWNR+200
      GO TO 5530
1398  CONTINUE
    IF(NR.GT.14000)GO TO 100
    PRINT *,'ERROR AT 1398 NR= ',NR
      NEWNR=200*(NR/200+1)+1
```

```
513          IF(NEWNR.EQ.6601)NEWNR=7001
514          IF(NEWNR.EQ.8201.OR.NEWNR.EQ.8401)NEWNR=NEWNR+200
515          GO TO 5530
516          END
```

CIA

DYN*PLOT(1).CIA DATE 122383 PAGE 1

```
      SUBROUTINE CIA
      COMPILER(LINK=IBJS)
C     THIS ROUTINE PLOTS WIND CASES 0-7 FROM RECORD 14201 TO 15800
C     WITH THE THREE SIGMA DELTAS FROM 15801-15999
C
      DIMENSION X(200),NOM(200),PLUS(200),MINUS(200)
      REAL NOM,MINUS
      CHARACTER*24 TITLE
      CHARACTER*4 DUMMY
      CHARACTER*6 CSIX
      CHARACTER*4 TAGS
      CHARACTER*12 XLABEL
      DIMENSION B(12)
  100 CALL ERASE
      CALL TSEND
      PRINT *,'CHOOSE BY NUMBER'
      PRINT *,' 0 - TERMINATE'
      PRINT *,' 1 - PLOT ALPHA'
      PRINT *,' 2 - PLOT BETA'
      ISEL=0
      READ(5,*)ISEL
      IF(ISEL.EQ.0)RETURN
      IF(ISEL.EQ.1)TITLE(1:5)='ALPHA'
      IF(ISEL.EQ.2)TITLE(1:5)='BETA '
      PRINT *,' SPECIFY WIND CASE  0-7'
      READ(5,*)IWIND
      DEFINE FILE 8(16000,13,U,IR)
      IRECST=14201+IWIND*200
      PRINT *,'STARTING RECORD= ',IRECST
      NPTS=0
      NR=IRECST
      DO 30 I=1,200
      READ(8'NR,ERR=1300)B,IVAR
      IF(IVAR.EQ.9999)GOTO200
      X(I)=B(1)
      IF(ISEL.EQ.1)NOM(I)=B(2)
      NR=NR+1
      IF(ISEL.EQ.2)NOM(I)=B(3)
   30 CONTINUE
C     HAVE GOT THE WIND CASE
  200 CONTINUE
      NPTS=I-1
      PRINT *,' READ ',NPTS,' POINTS'
      NR=15801
      DO 300 I=1,200
      READ(8'NR,ERR=1300)B,IVAR
      IF(IVAR.EQ.9999)GOTO301
      IF(ISEL.EQ.1)PLUS(I)=B(4)+NOM(I)
      IF(ISEL.EQ.1)MINUS(I)=NOM(I)-B(5)
      IF(ISEL.EQ.2)PLUS(I)=NOM(I)+B(6)
      IF(ISEL.EQ.2)MINUS(I)=NOM(I)-B(7)
      NR=NR+1
  300    CONTINUE
  301 CONTINUE
      TITLE(6:10)='WIND '
      ENCODE(4,53,TAGS)IWIND
```

```
   53   FORMAT(I4)
        TITLE(17:19)=TAGS(1:4)
        PRINT *,'FINISHED READING ' , '
C          DRAW GRID
        XMIN=0.
        XMAX=500.
        YMIN=-50.
        YMAX=50.
        NVGRID=10
        NHGRID=10
        DELX=(XMAX-XMIN)/NVGRID
        DELY=(YMAX-YMIN)/NHGRID
        XMINM=XMIN-DELX
        XMAXM=XMAX+DELX
        YMINM=YMIN-DELY
        YMAXM=YMAX+DELY
        CALL ERASE
        CALL DWINDO(XMINM,XMAXM,YMINM,YMAXM)
        CALL IWINDO(0,1023,0,780)
        CALL TSEND
        CALL CHRSIZ(4)
        CALL TSEND
C       DRAW BOX
        CALL MOVEA(XMIN,YMIN)
        CALL DRAWA(XMAX,YMIN)
        CALL DRAWA(XMAX,YMAX)
        CALL DRAWA(XMIN,YMAX)
        CALL DRAWA(XMIN,YMIN)
        CALL TSEND
        CALL MOVEA(XMIN,YMIN)
        YLOC=YMIN
        DO 70 I=1,NHGRID+1
        CALL MOVEA(XMIN,YLOC)
        CALL DRAWA(XMAX,YLOC)
        YLB=YLOC
        XLB=XMIN-DELX*.7
        ENCODE(6,892,CSIX)YLOC
        CALL LABELA(XLB,YLB,CSIX,6)
  892   FORMAT(F6.1)
        YLOC=YLOC+DELY
   70   CONTINUE
        CALL TSEND
        XLOC=XMIN
        DO 80 I=1,NVGRID+1
        CALL MOVEA(XLOC,YMIN)
        CALL DRAWA(XLOC,YMAX)
        XLB=XLOC-DELX*.5
        YLB=YMIN-DELY*.4
        ENCODE(6,892,CSIX)XLOC
        CALL LABELA(XLB,YLB,CSIX,6)
        XLOC=XLOC+DELX
   80   CONTINUE
        CALL TSEND
        XTITLE=(XMAX+XMIN)/2.
        YTITLE=YMAX+.5*DELY
        CALL LABELA(XTITLE,YTITLE,TITLE,16)
   76   CONTINUE
```

```
      XLABEL='TIME (SEC) '
      XLB=XMIN+DELX*3.
      YLB=YMIN-DELY
      CALL LABELA(XLB,YLB,XLABEL,12)
      CALL MOVEA(XMIN,YMIN)
      DO 202 I=1,NPTS
      IF(NOM(I).LT.YMAX.AND.NOM(I).GT.YMIN)CALL DRAWA(X(I),NOM(I))
202   CONTINUE
      CALL MOVEA(XMIN,YMIN)
      DO 220 I=1,NPTS
      IF(PLUS(I).GT.YMIN.AND.PLUS(I).LT.YMAX)CALL DASHA(X(I),PLUS(I),12)
220   CONTINUE
      CALL MOVEA(XMIN,YMIN)
      DO 230 I=1,NPTS
      IF(MINUS(I).LT.YMAX.AND.MINUS(I).GT.YMIN)
     *CALL DASHA(X(I),MINUS(I),34)
230   CONTINUE
      CALL TSEND
      READ(5,90)DUMMY
90    FORMAT(A4)
      GO TO 100
1300  PRINT *,'ERR 1300'
      STOP
      END

@HDG,P    FIX

@PRT,S    FIX
FURPUR 28R1M2 E36 S74T11 12/23/83 09:06:43
```

FIX

LYN*PLOT[1],FIX

```
      C     THE PUPPOSE OF THIS ROUTINE IS TO ZERO OUT
      C     RECORDS THAT HAD GOTTEN CLOBBERED
      C     AND WERE GIVEN A READ ERROR
      C     OR WERE CAUSING THE PROGRAMS TO BOMB OFF.
      C
      DIMENSION B(12)
      DEFINE FILE 8(16000,13,U,IR)
   10 PRINT *,'INPUT RECORD NUMBER TO FIX IN FORMAT'
      DO 80 K=1,12
      B(K)=0
   80 CONTINUE
      IVAR=0
      READ(5,90)NR
      IF(NR.EQ.0)STOP 'LEAVING'
   90 FORMAT(I4)
      WRITE(8'NR,ERR=1300)B,IVAR
      GO TO 10
 1300 PRINT *,'ERROR WRITING TO 8'
      STOP
      END
```

DYN*PLOT(1).FOURSM

```
      1                SUBROUTINE FOURSM
      2              REAL*4 NOM
      3            DIMENSION NOM(200),PLUS(200),DEL1(200),DEL2(200),DEL3(200)
      4              DIMENSION Z(200)
      5            DIMENSION X(200),Y(200)
      6              DIMENSION B(12)
      7            CHARACTER*24 TITLE
      8              CHARACTER*4 TAGS
      9              CHARACTER*12 HORNUM
     10               CHARACTER*8 TEXT
     11           CHARACTER*4 CHAR,R
     12     50      CALL ERASE
     13           DEFINE FILE 8(3000,13,U,IR)
     14           NR=1
     15             DO 60 I=1,200
     16           READ(8'NR,ERR=1300)B,IVAR
     17           IF(IVAR.EQ.9999)GOTO62
     18           X(I)=B(1)
     19           NOM(I)=B(4)
     20           NR=NR+1
     21     60        CONTINUE
     22     62        CONTINUE
     23           NPNTS=I-1
     24           NR=1501
     25             NVGRID=10
     26             NHGRID=10
     27           DO 70 I=1,NPNTS
     28           READ(8'NR,ERR=1300)B,IVAR
     29           IF(IVAR.EQ.9999)GOTO72
     30           PLUS(I)=B(2)+NOM(I)
     31           NR=NR+1
     32     70        CONTINUE
     33     72        CONTINUE
     34      C          HAVE NOMINAL AND NOM + 3SIG
     35      C          LET'S STOP AND TRY TO PLOT THEM
     36     300       CONTINUE
     37           CALL ERASE
     38           PRINT *,' PLEASE SELECT BY NUMBER'
     39           PRINT *,' 0 - TERMINATE'
     40           PRINT *,' 1 - RIGHT QUARTER HEADWINDS'
     41           PRINT *,' 2 - HEADWINDS'
     42           IWHICH=0
     43           READ(5,*)IWHICH
     44              CALL ERASE
     45           IF(IWHICH.EQ.0)RETURN
     46           NR=6801
     47           DO 36 I=1,NPNTS
     48           READ(8'NR,ERR=1300)B,IVAR
     49             IF(IVAR.EQ.9999)GOTO37
     50           DEL1(I)=B(4)-NOM(I)
     51              NR=NR+1
     52     36        CONTINUE
     53     37        CONTINUE
     54              NR=1401
     55           IF(IWHICH.EQ.2)NR=1401
     56            DO 43 I=1,NPNTS
```

```
      READ(8'NR,ERR=1000)B,IVAR
      IF(IVAR.EQ.9999)GOTO44
            DEL2(I)=B(4)-NOM(I)
      NR=NR+1
43          CONTINUE
44          CONTINUE
      DO 45 I=1,NPNTS
       DEL3(I)=SQRT(DEL1(I)**2+DEL2(I)**2)
      Y(I)=PLUS(I)+DEL3(I)
45          CONTINUE
      NR=14401
           IF(IWHICH.EQ.2)NR=14801
      DO 57 I=1,NPNTS
      READ(8'NR,ERR=1000)B,IVAR
      IF(IVAR.EQ.9999)GOTO58
      Z(I)=B(4)
         NR=NR+1
57          CONTINUE
58          CONTINUE
1000          CONTINUE
      XMIN=0.
      XMAX=500.
      YMIN=0.
      YMAX=1000.
      DELX=50.
      DELY=100.
      XMINM=XMIN-DELX
      XMAXM=XMAX+DELX
      YMINM=YMIN-DELY
      YMAXM=YMAX+DELY
      CALL DWINDO(XMINM,XMAXM,YMINM,YMAXM)
      CALL TWINDO(0,1023,0,780)
      CALL ISEND
      CALL MOVEA(XMIN,YMIN)
      CALL DRAWA(XMAX,YMIN)
      CALL DRAWA(XMAX,YMAX)
      CALL DRAWA(XMIN,YMAX)
      CALL DRAWA(XMIN,YMIN)
      CALL ISEND
           DELXX=(XMAX-XMIN)/NVGRID
      XLOC=XMIN+DELXX
      XSTRT=XMIN
      XNOW=XMIN+DELXX
      XEND=XSTRT+DELXX*.5
C
C   DRAW THE VERTICAL GRID LINES
C
      VAL=XMIN
      DO 10 I=1,NVGRID+1
           IF(VAL.GT.XMAX)GO TO 10
      CALL MOVEA(VAL,YMIN)
      CALL DRAWA(VAL,YMAX)
      ENCODE(2,IEXT)VAL
3       FORMAT(F8.1)
           YSY=YMIN-DELY/2
           XXVAL=VAL-DELX/2.
      CALL LABELA(XXVAL,YSY,IEXT,8)
```

```
      VAL=VAL+DELXX
   10   CONTINUE
C
C     DRAW THE HORIZONTAL GRID LINES
C
      VALY=YMIN
      DO 16 I=1,NHGRID+1
      CALL MOVEA(XMIN,VALY)
      CALL DRAWA(XMAX,VALY)
      ENCODE(19,HORNUM)VALY
   19   FORMAT(F11.2)
        XXXX=XMIN-DELX*1.
      CALL LABELA(XXXX,VALY,HORNUM,12)
      VALY=VALY+DELY
        IF(VALY.GT.YMAX)GO TO 17
   16 CONTINUE
   17  CONTINUE
C     IF(KK.GT.1)GOTO381
      CALL ISEND
      CALL MOVEA(XMIN,YMIN)
      DO 100 I=1,NPNTS
      CALL DRAWA(X(I),NOM(I))
  100    CONTINUE
           CALL MOVEA(XMIN,YMIN)
      DO 105 I=1,NPNTS-1
       IF(X(I).GT.450..AND.PLUS(I).LT.400.)GOTO105
      CALL DASHA(X(I),PLUS(I),12)
  105    CONTINUE
      CALL MOVEA(XMIN,YMIN)
      DO 128 I=1,NPNTS-1
        IF(X(I).GT.450..AND.Y(I).LT.400.)GOTO128
      CALL DASHA(X(I),Y(I),34)
  128   CONTINUE
           CALL MOVEA(XMIN,YMIN)
      DO 132 I=1,NPNTS-1
          IF(X(I).GT.450..AND.Z(I).LT.400.)GOTO132
      CALL DRAWA(X(I),Z(I))
  132    CONTINUE
      XTIT=XMIN+3.*DELX
      YTIT=YMIN-DELY
      TITLE(1:12)='TIME (SECS) '
      TITLE(13:24)=' RIGHT QRTR '
      IF(IWHICH.EQ.2)TITLE(13:24)=' HEADWINDS  '
      CALL LABELA(XTIT,YTIT,TITLE,24)
      CALL ISEND
           READ(5,1234)TAGS
 1234      FORMAT(A4)
      GOTO300
 1300      PRINT *,'ERROR READING UNIT 8'
       PRINT *,'NR= ',NR
       STOP
      END

@HDG.P      HPIVAR
```

```
CYN*PLOT(1).HPIVAR
      1          SUBROUTINE HPIVAR
      2          CHARACTER*56 LINE(37)
      3          CHARACTER*4 DUMM
      4          CALL NEWPAG
      5          LINE(1)='THE IVAR IS A FOUR DIGIT INTEGER USED TO INDICATE '
      6          LINE(2)='WHICH DISPERSION IS BEING USED.'
      7          LINE(3)='THE FIRST DIGIT IS THE TYPE.'
      8          LINE(4)='0=NOMINAL'
      9          LINE(5)='1-PROPULSION'
     10          LINE(6)='2-AERO/ENVIRONMENT'
     11          LINE(7)='3-MASS PROPERTIES'
     12          LINE(8)='4-GUIDANCE,NAVIGATION AND CONTROL'
     13          LINE(9)='THE FOLLOWING TABLE ILLUSTRATES THE '
     14          LINE(10)='FIRST THREE DIGITS OF IVAR:'
     15          LINE(11)='001 - NOMINAL'
     16          LINE(12)='101 - SRM THRUST                    -- 201 CA'
     17          LINE(13)='102 - SRM THRUST                    -- 202 CN'
     18          LINE(14)='103 - SRM ISP                       -- 203 CM'
     19          LINE(15)='104 - SRM THR MISMATCH              -- 204 CY'
     20          LINE(16)='105 - SRM ISP MISMATCH              -- 205 CNB'
     21          LINE(17)='106 - SRM THR MISALIGN(P)           -- 206 CL'
     22          LINE(18)='107 - SRM THR MISALIGN(Y)           -- 207 BASE FORCE'
     23          LINE(19)='108 - SSME VAC THRUST               -- 208 ATMOSPHERE'
     24          LINE(20)='109 - SSME VAC ISP '
     25          LINE(21)='110 - SSME THRUST MISALIGN (P)'
     26          LINE(22)='111 - SSME THRUST MISALIGN (Y)'
     27          LINE(23)='-------------------------------------------------'
     28          LINE(24)='301 - ET PROP WT                    -- 401 ACCEL ERROR(NOR)'
     29          LINE(25)='302 - SRB PROP WT                   -- 402 ACCEL ERROR (LAT)'
     30          LINE(26)='303 - SRB INERT WT                  -- 403 RATE GYRO NORMAL'
     31          LINE(27)='304 - 2ND STG INERT WT              -- 404 RATE GYRO LATER'
     32          LINE(28)='305 - VEH CG(X 1ST STAGE)           -- 405 IMU PLT (P)'
     33          LINE(29)='306 - VEH CG(Y 1ST STAGE)           -- 406 IMU PLT (Y)'
     34          LINE(30)='307 - VEH CG(Z 1ST STAGE)           -- 407 IMU PLT (R)'
     35          LINE(31)='308 - VEH CG(X 2ND STAGE)           -- 408 MECO TARG'
     36          LINE(32)='309 - VEH CG (Z 2ND STAGE)'
     37          LINE(33)='-------------------------------------------------'
     38          LINE(34)='THE FOURTH DIGIT INDICATES 0-POSITIVE DISPERSION'
     39          LINE(35)='                           1-NEGATIVE DISPERSION'
     40          LINE(36)=' '
     41          LINE(37)='PRESS RETURN TO CONTINUE'
     42              CALL ISEND
     43              CALL CHRSIZ(2)
     44              DO 1000 I=1,37
     45              WRITE(6,2000)LINE(I)
     46   2000 FORMAT(1X,A56)
     47   1000 CONTINUE
     48              READ(5,3000)DUMM
     49   3000 FORMAT(A4)
     50              CALL ISEND
     51              CALL CHRSIZ(4)
     52              CALL ISEND
     53              CALL NEWPAG
     54          RETURN
     55          END
```

```
      SUBROUTINE HPPROG
      CHARACTER*50 LINE(25)
      CHARACTER*4 DUM
C
C
      CALL NEWPAG
      LINE(1)='THIS PROGRAM IS DESIGNED TO USE THE ETR*DISP DATA.'
      LINE(2)='BEFORE USING,YOU SHOULD DO:                       '
      LINE(3)='@FREE 8.                                          '
      LINE(4)='@USE 8,ETR*DISP.                                  '
      LINE(5)='@ASG,A 8.                                         '
      LINE(6)='                                                  '
      LINE(7)='THE MENUS ARE MOSTLY SELF-EXPANATORY              '
      LINE(8)='YOU MAY GET A FORMATTED LISTING OF THE DATA OR    '
      LINE(9)='DRAW PLOTS.  THE PLOTS MAY HAVE ANY NUMBER OF     '
      LINE(10)='CURVES.  THE DATA TO BE PLOTTED MAY BE CHOSEN BY '
      LINE(11)='EITHER SPECIFYING RECORD NUMBERS OR IVAR NUMBERS.'
      LINE(12)='FOR AN EXPLANATION OF IVAR NUMBERS TAKE OPTION 4.'
      LINE(13)='  '
      LINE(14)='AFTER A PLOT IS DRAWN,YOU WILL GET A PROMPT,     '
      LINE(15)='THEN PUSH CARRIAGE RETURN TO GO BACK TO THE MAIN '
      LINE(16)='MENU; OR GO ONE OF THE FOLLOWING:                '
      LINE(17)='TYPE IN  ZOOM  TO ENLARGE A PARTICULAR WINDOW OF '
      LINE(18)='INTEREST. THEN SPECIFY THE LOWER LEFT AND UPPER  '
      LINE(19)='RIGHT CORNERS.  OR TYPE IN  DEFA  TO REPLOT WITH '
      LINE(20)='THE DEFAULT AXES.                                '
      LINE(21)='IF YOU HAVE ANY PROBLEMS, PEASE CONTACT:         '
      LINE(22)='SAM POWELL AT 3-1377                             '
      LINE(23)='  '
      LINE(24)='  '
      LINE(25)='PUSH RETURN TO CONTINUE                          '
      CALL TSEND
      CALL CHRSIZ(2)
      DO 1000 I=1,25
      WRITE(6,2000)LINE(I)
 2000 FORMAT(1X,A50)
 1000 CONTINUE
      READ(5,3000)DUM
      CALL TSEND
      CALL CHRSIZ(4)
      CALL TSEND
 3000 FORMAT(A4)
      CALL NEWPAG
      RETURN
      END
```

SIGMA

DYN*PLOT(1).SIGMA

```
      SUBROUTINE SIGMA
      COMPILER(LINK=IBJS)
C
C     SEPARATE SUBROUTINE FOR PLOTTING THE NOMINAL,
C     PLUS AND MINUS 3-SIGMA VARIATION AND UP TO 3
C     USER-CHOSEN DISPERSIONS.
C     SAM POWELL  SEPT. 1983.
C
      REAL*4 T(200),NOM(200)
      REAL*4 PLUS(200),MINUS(200)
      CHARACTER*4 CIVAR
      CHARACTER*24 DESARY(5,12)
      CHARACTER*1 CHAPON
      CHARACTER*2 CHARIW
      CHARACTER*24 CDSRP(3)
      DIMENSION X(200),Y(200),NRSIRI(3)
      CHARACTER*4 SP,SM
      CHARACTER*8 IALS
      DIMENSION IVAR(3)
      INTEGER S1,S2
      EQUIVALENCE(RVAR,IIIVAR)
      CHARACTER*8 IEXT
      CHARACTER*8 VARNAM
      CHARACTER*12 IVARNM
      CHARACTER*24 TITLE
      DIMENSION B(12)
      CHARACTER*4 DUMMY
C
      DATA (DESARY(1,J),J=1,11)/'SRM WAT','SRM THRUST','SRM ISP',
     1'SRM THRUST MISMATCH','SRM ISP MISMATCH',
     2'SRM THRUST MISALIGN(P)','SRM THRUST MISALIGN(Y)',
     3'SSME VACUUM THRUST','SSME VACUUM ISP','SSME THRUST MISALIGN(P)',
     4'SSME THRUST MISALIGN(Y)'/
      DATA (DESARY(2,J),J=1,8)/'CA','CN','CM','CY','CNB','CLB',
     1'BASE FORCE','ATMOSPHERE'/
      DATA (DESARY(3,J),J=1,9)/'ET PROP WT','SRB PROP WT','SRB INRT WT',
     1'2ND STG INERT WT','VEH CG(X STG 1)','VEH CG (Y) STG 1',
     2'VEH CG (Z) STG 1','VEH CG (X) STG 2','VEH CG (Z) STG 2'/
      DATA (DESARY(4,J),J=1,8)/'ACCEL ERROR (NORM)','ACCEL ERROR (LAT)',
     1'RATE GYRO NORMAL','RATE GYRO LAT','IMU PLAT (P)','IMU PLAT (Y)',
     2'IMU PLAT (P)','MECO TARGET'/
      S1=0
      S2=780
      YMIN=0.
      YMAX=630.
      SP='X   '
      SM='O   '
C        IP = HOW OFTEN FOR MARKER
C
      IP=10
      XMIN=0.
      XMAX=550.
  100   CALL ERASE
      NVGRID=11
      DEFINE FILE 8(17000,13,U,IR)
  102   PRINT *,'PLEASE SELECT BY NUMBER'
```

```
      PRINT *,' 0 -RETURN'
      PRINT *,' 1 - PLOT ONLY THE NOMINAL AND PLUS AND MINUS 3SIGMA'
      PRINT *,' 2 - PLOT ABOVE AND 3 DISPERSIONS'
      READ(5,*)IPLOT
      IF(IPLOT.EQ.0)RETURN
      PRINT *,'SPECIFY XMIN'
      READ(5,*)XMIN
      PRINT *,'SPECIFY XMAX'
      READ(5,*)XMAX
      PRINT *,'INPUT STARTING RECORD NUMBER FOR *NOMINAL*'
      READ(5,*)NRNOM
      PRINT *,'SPECIFY NUMBER OF VERTICAL GRID LINES'
      READ(5,*)NVGRID
      IF(IPLOT.EQ.1)GOTO150
      CDSRP(1)='DESCRIPTION FOR CURVE 1 '
      CDSRP(2)='DESCRIPTION FOR CURVE 2 '
      CDSRP(3)='DESCRIPTION FOR CURVE 3 '
      DO 660 I=1,3
      PRINT *,' SELECT IVAR FOR CURVE # ',I
      READ(5,69)IVAR(I)
      ENCODE(4,655,CIVAR)IVAR(I)
  655   FORMAT(I4)
  656   FORMAT(I1)
  657   FORMAT(I2)
      CHARON(1:1)=CIVAR(1,1)
      CHARTW(1:2)=CIVAR(2:3)
      DECODE(1,656,CHARON)IFRST
      DECODE(2,657,CHARTW)ISCND
      CDSRP(I)=DESARY(IFRST,ISCND)
      IF(CIVAR(4:4).EQ.'0')THEN
            CDSRP(I)(24:24)='+'
      ELSE
            CDSRP(I)(24:24)='-'
      ENDIF
      PRINT *,'DES = ',CDSRP(I)
      DO 670 K=1,15000,200
      READ(8'K,ERR=13070)LVAR
      IF(LVAR.EQ.IVAR(I))GOTO671
  670 CONTINUE
      PRINT *,IVAR(I),' NOT FOUND'
      GOTO102
  671   CONTINUE
      NRSTRT(I)=K
      PRINT *,'NRSTRT = ',NRSTRT(I)
  669   CONTINUE
  150 PRINT *,'PLEASE SELECT VARIABLE TO PLOT BY NUMBER'
      PRINT *,' 0 = RETURN'
      PRINT *,' 1 - AMI'
      PRINT *,' 2 - ALPHA'
      PRINT *,' 3 - BETA'
      PRINT *,' 4 - DYNPR'
      PRINT *,' 5 - C-ALPHA'
      PRINT *,' 6 - C-BETA'
      ISEL=0
      READ(5,800)ISEL
  800   FORMAT(I1)
      IF(ISEL.EQ.0)RETURN
```

```
      GOTO(200,210,220,230,240,250),ISEL
  200 CONTINUE
C
C     200 IS PLOTTING AHI
      VARNAM='AHI'
      LVARNM='AHI BTU/SQFT'
      YMIN=0.
      YMAX=600.
   60 FORMAT(I4)
      NHGRID=12
      NUMVAR=1
      GOTO300
  210 VARNAM='ALPHA'
      LVARNM='ALPHA DEG    '
      YMIN=-8.
      YMAX=12.
      NHGRID=11
      NUMVAR=2
      GOTO300
  220 VARNAM='BETA'
      LVARNM='BETA DEG     '
      NUMVAR=3
      YMIN=-5.
      YMAX=5.
      NHGRID=10
      GOTO300
  230 VARNAM='DYNPR'
      LVARNM='DYN PR PSF   '
      NUMVAR=4
      YMIN=0.
      YMAX=800.
      NHGRID=16
      GOTO300
  240 CONTINUE
      VARNAM='QALPH'
      LVARNM='Q-ALPHA'
      YMIN=-3000.
      YMAX=2000.
      NHGRID=10
      NUMVAR=5
      GOTO300
  250 CONTINUE
      LVARNM='Q-BETA'
      YMIN=-400.
      YMAX=700.
      NHGRID=11
      NUMVAR=6
      GOTO300
C
  300 CONTINUE
      VGRID=FLOAT(NVGRID)
      FHGRID=FLOAT(NHGRID)
      DELX=(XMAX-XMIN)/VGRID
      DELY=(YMAX-YMIN)/FHGRID
      XMINM=XMIN-DELX
      XMAXM=XMAX+DELX
      YMINM=YMIN-DELY
```

```
      YMAXM=YMAX+DELY
      CALL ERASE
      CALL DWINDO(XMINM,XM,XM,YMINM,YMAXM)
      CALL TWINDO(0,1023,S1,S2)
      CALL TSEND
C      DRAW FRAME
      XCENTR=(XMAX+XMIN)/2.
      CALL MOVEA(XMIN,YMIN)
      CALL DRAWA(XMAX,YMIN)
      CALL DRAWA(XMAX,YMAX)
      CALL DRAWA(XMIN,YMAX)
      CALL DRAWA(XMIN,YMIN)
      CALL TSEND
C     NOW THE VERT GRID LINES
      XLOC=XMIN
      DO 75 I=1,NVGRID+1
      CALL MOVEA(XLOC,YMIN)
      CALL DRAWA(XLOC,YMAX)
      YPUT=YMIN-.3*DELY
      ENCODE(8,76,TAGS)XLOC
      XXLOC=XLOC-.5*DELX
76      FORMAT(F6.0)
      CALL LABELA(XXLOC,YPUT,TAGS,8)
      CALL TSEND
      XLOC=XLOC+DELX
75      CONTINUE
C          NOW HORIZ GRID LINES
      YLOC=YMIN
      DO 80 I=1,NHGRID+1
      CALL MOVEA(XMIN,YLOC)
      CALL DRAWA(XMAX,YLOC)
      ENCODE(8,76,TAGS)YLOC
      XPUT=XMIN-DELX*.7
      CALL LABELA(XPUT,YLOC,TAGS,8)
      YLOC=YLOC+DELY
80      CONTINUE
      CALL TSEND
      TITLE=' '
      TITLE(1:12)=LVARNM
      YSTART=YMAX-DELY*3.0
      YYPUT=YSTART
      YDLTA=DELY*.5
      XXPUT=XMIN-DELX*.95
      DO 3200 K=1,12
      TAGS(1:1)=LVARNM(K:K)
      CALL LABELA(XXPUT,YYPUT,TAGS,1)
      YYPUT=YYPUT-YDLTA
3200      CONTINUE
      CALL TSEND
      TITLE(1:10)='TIME (SEC)'
      XXPUT=XMIN+4.*DELX
      YYPUT=YMIN-DELY*.7
      CALL LABELA(XXPUT,YYPUT,TITLE,10)
      CALL TSEND
      XPUT=XMIN
      XGO=XMIN+DELX*.5
      YPUT=YMAX+DELY*.9
```

```
228            YYYPUT=YMAX+DELY*.08
229            CALL MOVEA(XPUT,YPUT)
230            CALL DRAWA(XGO,YPUT)
231            CALL TSEND
232            TITLE(1:8)='NOMINAL '
233            XTPUT=XMIN+DELX
234            CALL LABELA(XTPUT,YYYPUT,TITLE,8)
235            CALL TSEND
236            YPUT=YMAX+DELY*.5
237            CALL MOVEA(XPUT,YPUT)
238            CALL DRAWA(XGO,YPUT)
239            YYYPUT=YMAX+DELY*.45
240            CALL LABELA(XPUT,YYYPUT,SP,1)
241            CALL LABELA(XGO,YYYPUT,SP,1)
242            CALL TSEND
243            TITLE(1:12)='POSITIVE RSS'
244            CALL LABELA(XTPUT,YYYPUT,TITLE,12)
245            CALL TSEND
246            YPUT=YMAX+DELY*.1
247            YYYPUT=YMAX+DELY*.05
248            CALL MOVEA(XPUT,YPUT)
249            CALL DRAWA(XGO,YPUT)
250            CALL LABELA(XPUT,YYYPUT,SM,1)
251            CALL LABELA(XGO,YYYPUT,SM,1)
252            CALL TSEND
253            TITLE(1:12)='NEGATIVE RSS'
254            CALL LABELA(XTPUT,YYYPUT,TITLE,12)
255            CALL TSEND
256            CALL MOVEA(XMIN,YMIN)
257            NR=NRNOM
258            DO 110 K=NP,NP+199
259            READ(8'K,ERR=1300)B,LVAR
260            T(K)=B(1)
261            IF(NUMVAR.EQ.1)NOM(K)=B(4)
262            IF(NUMVAR.EQ.2)NOM(K)=B(2)
263            IF(NUMVAR.EQ.3)NOM(K)=B(3)
264            IF(NUMVAR.EQ.4)NOM(K)=B(5)
265            IF(NUMVAR.EQ.5)NOM(K)=B(2)*B(5)
266            IF(NUMVAR.EQ.6)NOM(K)=B(3)*B(5)
267            IF(LVAR.EQ.9999)GOTO115
268        110   CONTINUE
269        115   NPTS=K
270        120  CONTINUE
271            DO 130 N=1,NPTS-1
272            IF(NOM(N).LT.YMIN.OR.NOM(N).GT.YMAX)GOTO130
273            IF(T(N).GT.XMAX.OR.T(N).LT.XMIN)GOTO130
274            CALL DRAWA(T(N),NOM(N))
275        130    CONTINUE
276            CALL TSEND
277        C
278        C              ADDING PLUS AND MINUS DISPERSIONS
279        C              HAVE TIME, 4 POS 4NEG 3DUMMY ANDLVAR
280        C              IN NR=15801 UP
281        C
282            NR=15801
283                   DO 601 J=1,199
284        601     READ(8'NR,ERR=1300)B,RVAR
```

```
285                 IF(TITVAR.EQ.9999.OR.NR.GT.16000)GOTO630
286                 NR=NR+1
287                 IF(NUMVAR.EQ.1)THEN
288                     PLUS(J)=B(2)+NOM(J)
289                     MINUS(J)=NOM(J)-B(3)
290                 ELSEIF(NUMVAR.EQ.2)THEN
291                     PLUS(J)=NOM(J)+B(4)
292                     MINUS(J)=NOM(J)-B(5)
293                 ELSEIF(NUMVAR.EQ.3)THEN
294                     PLUS(J)=NOM(J)+B(6)
295                     MINUS(J)=NOM(J)-B(7)
296                 ELSEIF(NUMVAR.EQ.4)THEN
297                     PLUS(J)=NOM(J)+B(8)
298                     MINUS(J)=NOM(J)-B(9)
299                 ELSEIF(NUMVAR.EQ.5)THEN
300                     PLUS(J)=NOM(J)+B(10)
301                     MINUS(J)=NOM(J)-B(11)
302                 ELSE
303                     PLUS(J)=NOM(J)+B(12)
304                     MINUS(J)=NOM(J)-RVAR
305                 ENDIF
306       611       CONTINUE
307       630       CONTINUE
308                 NPNTS=J-1
309                 IP=10
310       C             PLOT THE POS
311                 CALL MOVEA(XMIN,YMIN)
312                 DO 640 JJ=1,NPNTS
313                 IF(T(JJ).GT.XMAX)GOTO641
314                 IF(PLUS(JJ).GT.YMAX.OR.PLUS(JJ).LT.YMIN)GOTO640
315                 IF(T(JJ).LT.XMAX.AND.T(JJ).GT.XMIN)CALL DRAWA(T(JJ),PLUS(JJ))
316       640       CONTINUE
317       641       CONTINUE
318                 CALL TSEND
319                 DO 642 JJ=1,NPNTS
320                 IF(JJ.GT.130)IP=1
321                 IQ=JJ/IP
322                 IT=IQ*IP
323                 IF(T(JJ).LT.XMIN)GOTO642
324                 IF(T(JJ).GT.XMAX)GOTO643
325                 IF(JJ.EQ.IT.AND.PLUS(JJ).LT.YMAX.AND.PLUS(JJ).GT.YMIN)
326                +CALL LABELA(T(JJ),PLUS(JJ),SP,4)
327       642       CONTINUE
328       643       CONTINUE
329                 CALL TSEND
330                 CALL MOVEA(XMIN,YMIN)
331                 DO 650 JJ=1,NPNTS
332                 IF(T(JJ).GT.XMAX)GOTO569
333                 IF(MINUS(JJ).GT.YMAX.OR.MINUS(JJ).LT.YMIN)GOTO650
334                 IF(T(JJ).LT.XMAX.AND.T(JJ).GT.XMIN)CALL DRAWA(T(JJ),MINUS(JJ))
335       650       CONTINUE
336       569       CONTINUE
337                 IP=10
338                 CALL TSEND
339                 DO 652 JJ=1,NPNTS
340                     IF(T(JJ).LT.XMIN)GOTO652
341                 IF(T(JJ).GT.XMAX)GOTO652
```

```
342             IF(JJ.GT.130)IP=1
343             IQ=JJ/IP
344             IT=IQ*IP
345             IF(JJ.EQ.IT.AND.MINUS(JJ).LT.YMAX.AND.MINUS(JJ).GT.YMIN)
346            *CALL LABELA(T(JJ),MINUS(JJ),SM,4)
347       652      CONTINUE
348       658           CONTINUE
349             CALL TSEND
350             IF(IPLOT.EQ.1)READ(5,101)DUMM
351             IF(IPLOT.EQ.1)GOTO100
352             YYLOC=YMAX+DELY*.9
353             YYYLOC=YMAX+DELY*.87
354             DO 195 K=1,3
355             CALL MOVEA(XMIN,YMIN)
356             DO 196 KJ=1,199
357             NR=NRSTRT(K)+KJ
358             READ(8'NR,ERR=1300)B,LVAR
359             IF(LVAR.EQ.9999)GOTO199
360             X(KJ)=B(1)
361             IF(X(KJ).GT.XMAX)GOTO199
362             IF(Y(KJ).LT.YMIN)GOTO196
363             IF(NUMVAR.EQ.1)Y(KJ)=B(4)
364             IF(NUMVAR.EQ.2)Y(KJ)=B(2)
365             IF(NUMVAR.EQ.3)Y(KJ)=B(3)
366             IF(NUMVAR.EQ.4)Y(KJ)=B(5)
367             IF(NUMVAR.EQ.5)Y(KJ)=B(2)*B(5)
368             IF(NUMVAR.EQ.6)Y(KJ)=B(3)*B(5)
369             IF(Y(KJ).LT.YMIN.OR.X(KJ).LT.XMIN)GOTO196
370             IF(Y(KJ).GT.YMAX.OR.X(KJ).GT.XMAX)GOTO196
371             IF(K.EQ.1)CALL DASHA(X(KJ),Y(KJ),12)
372             IF(K.EQ.2)CALL DASHA(X(KJ),Y(KJ),34)
373             IF(K.EQ.3)CALL DASHA(X(KJ),Y(KJ),2)
374       196      CONTINUE
375       199      CONTINUE
376             XXLAB=XMIN+DELX*5.
377             XFROM=XMIN+DELX*4.
378             XTO=XFROM+DELX*.5
379             CALL MOVEA(XFROM,YYLOC)
380             IF(K.EQ.1)CALL DASHA(XTO,YYLOC,12)
381             IF(K.EQ.2)CALL DASHA(XTO,YYLOC,34)
382             IF(K.EQ.3)CALL DASHA(XTO,YYLOC,2)
383             CALL LABELA(XXLAB,YYYLOC,CDSRP(K),24)
384             YYLOC=YYLOC-DELY*.4
385             YYYLOC=YYYLOC-DELY*.42
386       195      CONTINUE
387             CALL TSEND
388             READ(5,101)DUMM
389             GO TO 100
390       101    FORMAT(1A4)
391       1300      PRINT *,'ERROR READING 9'
392             GOTO150
393             END
```

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